AUDIO VIDEO SURROUND RECEIVER

KRF-V5020/V5020E/V5020W/V5020(S)
V6020/V6020E/V6020W/
V7020/V7020E/V7020W/
VR-305/306/355

SERVICE MANUAL

KENWOOD

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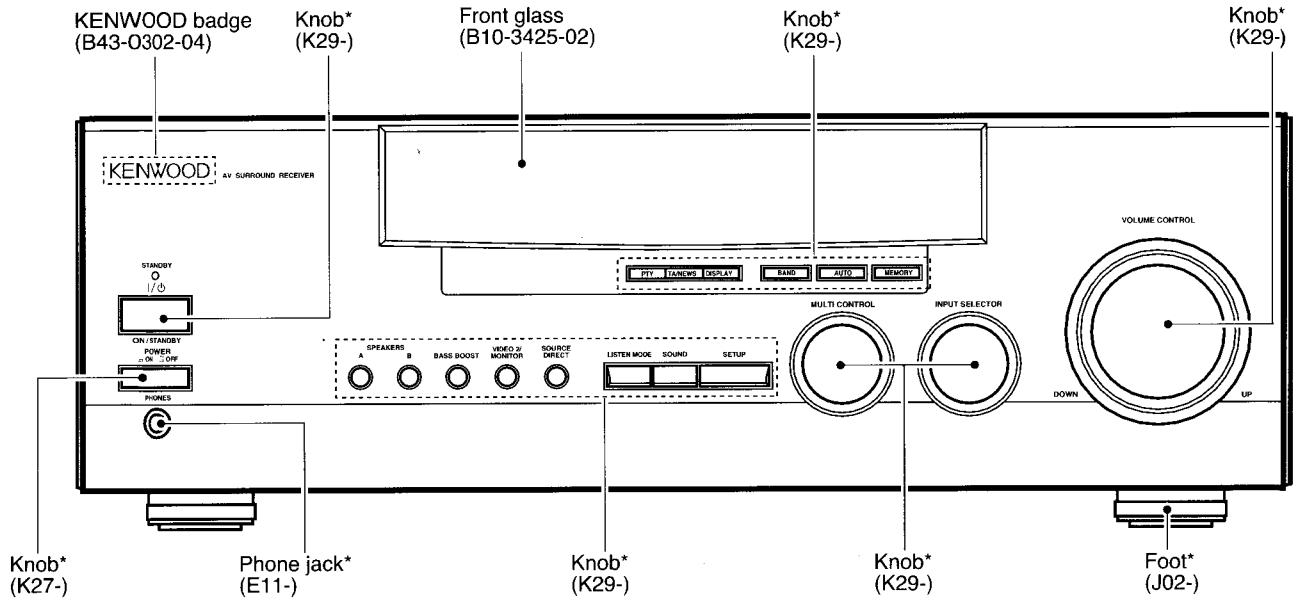
On the Block diagram, backup data, Initial state and system microprocessor, refer to the KRF-V5010 service manual (B51-5425-00)



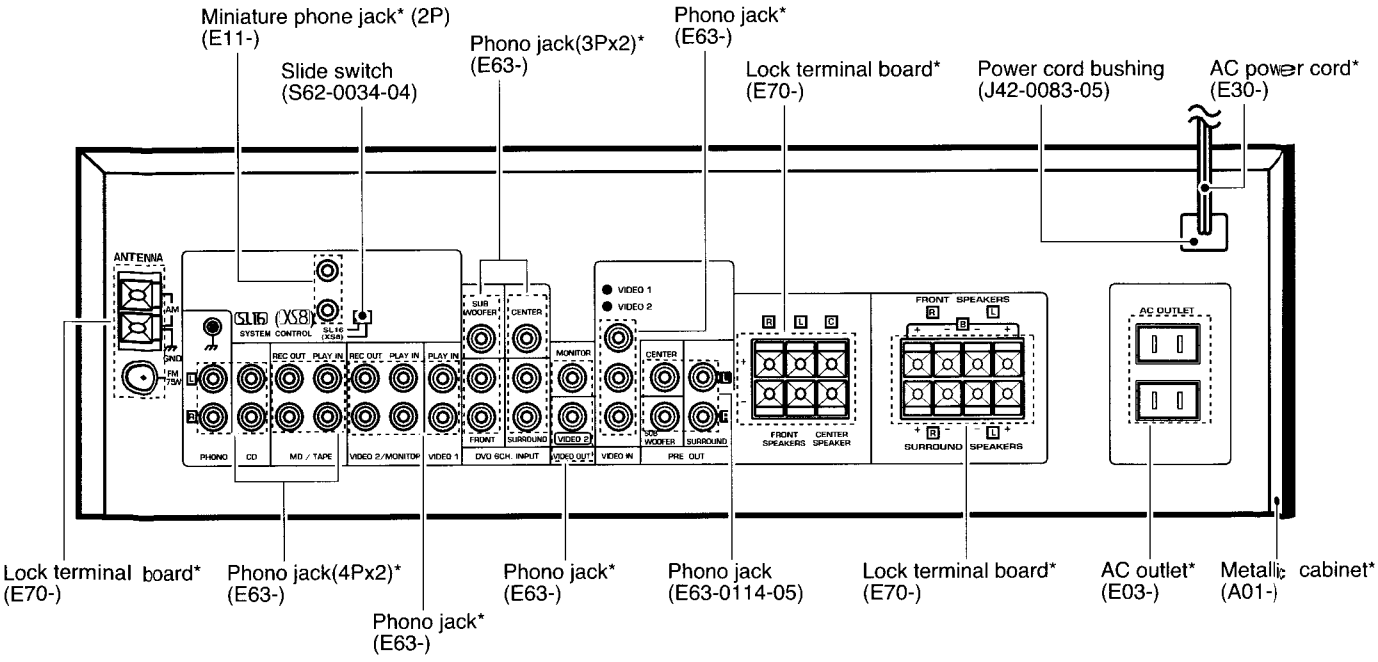


Illustration is KRF-V5020.

*** Refer to parts list on page 23~.**

KRF-V5020/V6020/V7020/VR-305/306/355

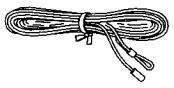
CONTENTS / ACCESSORIES

Contents

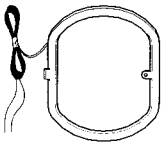
CONTENTS / ACCESSORIES 2
DISASSEMBLY FOR REPAIR 3
ADJUSTMENT 4
WIRING DIAGRAM 5
PC BOARD 6
SCHEMATIC DIAGRAM 9
EXPLODED VIEW 22
PARTS LIST 23
SPECIFICATIONS 35

Accessories

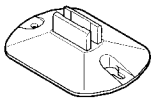
FM indoor antenna (1)
(T90-0836-05)



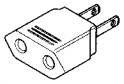
AM loop antenna (1) (T90-0833-05)



Loop antenna stand (1)
(J19-3645-05)

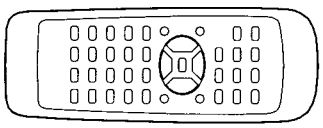


AC plug adaptor (1)
(E03-0115-05)

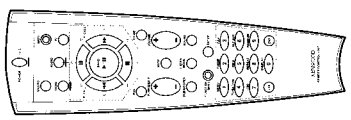


*Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

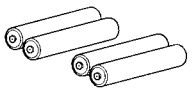
Remote control unit (1)
RC-R0710/R0711



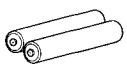
Remote control unit (1)
RC-R0508/R0608



Batteries (R03/AAA) (4)



Batteries (R06/AA) (2)



Model name vs remote controller

Model	Destinations	Remote Controller		
		Parts number	Model name	Battery Cover
KRF-V5020	I5, M5, X5, Y5	A70-1264-05	RC-R0711	A09-1123-08
KRF-V5020	E1	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020	T5	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020(S)	E2	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020E	E3	A70-1265-05	RC-R0710	A09-1123-08
KRF-V5020W	Q5	A70-1265-05	RC-R0710	A09-1123-08
KRF-V6020	C6, I6, M6, X6	A70-1264-05	RC-R0711	A09-1123-08
KRF-V6020	E4	A70-1275-05	RC-R0508	A09-0366-08
KRF-V6020E	E5	A70-1265-05	RC-R0710	A09-1123-08
KRF-V6020W	Q6	A70-1265-05	RC-R0710	A09-1123-08
KRF-V7020	E7, T7	A70-1275-05	RC-R0508	A09-0366-08
KRF-V7020E	E8	A70-1275-05	RC-R0508	A09-0366-08
KRF-V7020W	Q7	A70-1275-05	RC-R0508	A09-0366-08
VR-305	K2, P2	A70-1264-05	RC-R0711	A09-1123-08
VR-306	K1, P1	A70-1264-05	RC-R0711	A09-1123-08
VR-355	K3, P3	A70-1271-05	RC-R0608	A09-0366-08

Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

For U.S.A. and Canada

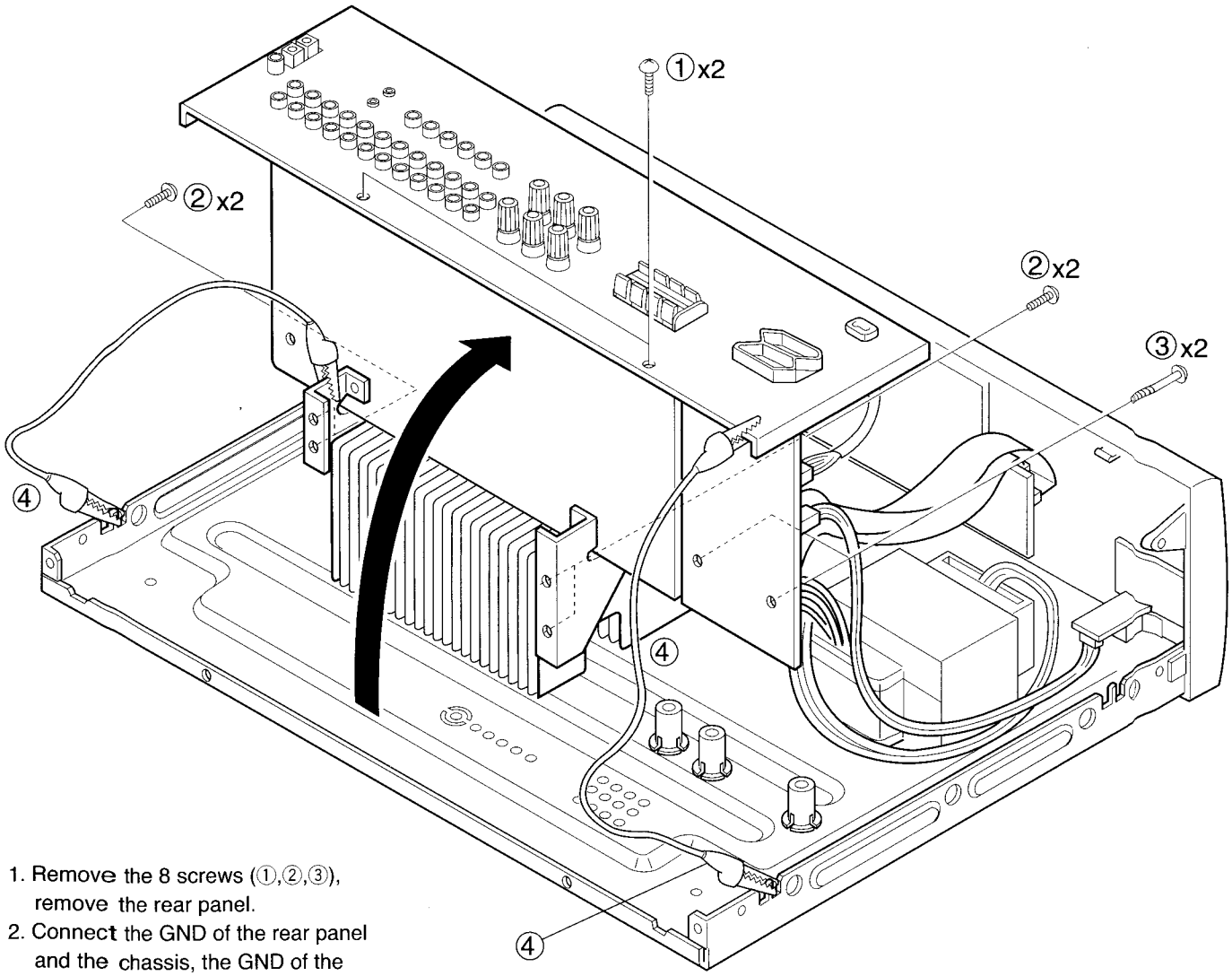
Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

For other countries

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

DISASSEMBLY FOR REPAIR

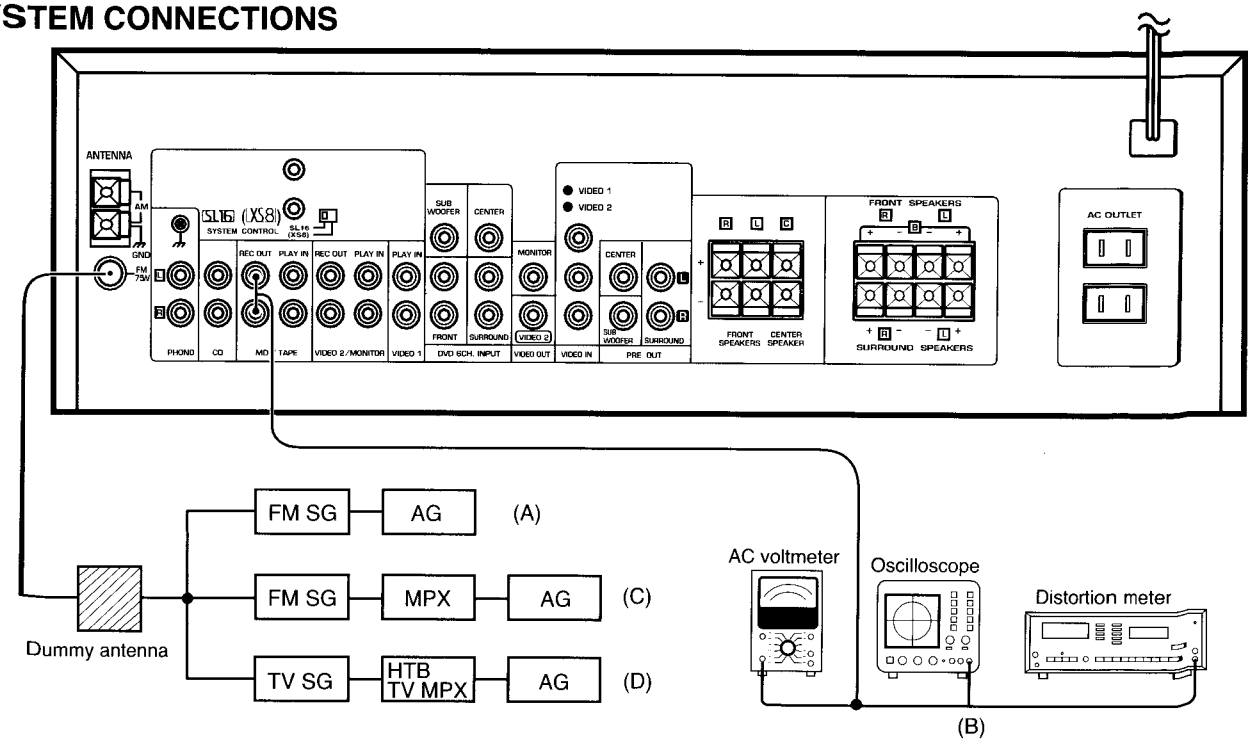


1. Remove the 8 screws (①,②,③), remove the rear panel.
2. Connect the GND of the rear panel and the chassis, the GND of the mounting hardware and the chassis with 2 alligators clip (④)

ADJUSTMENT

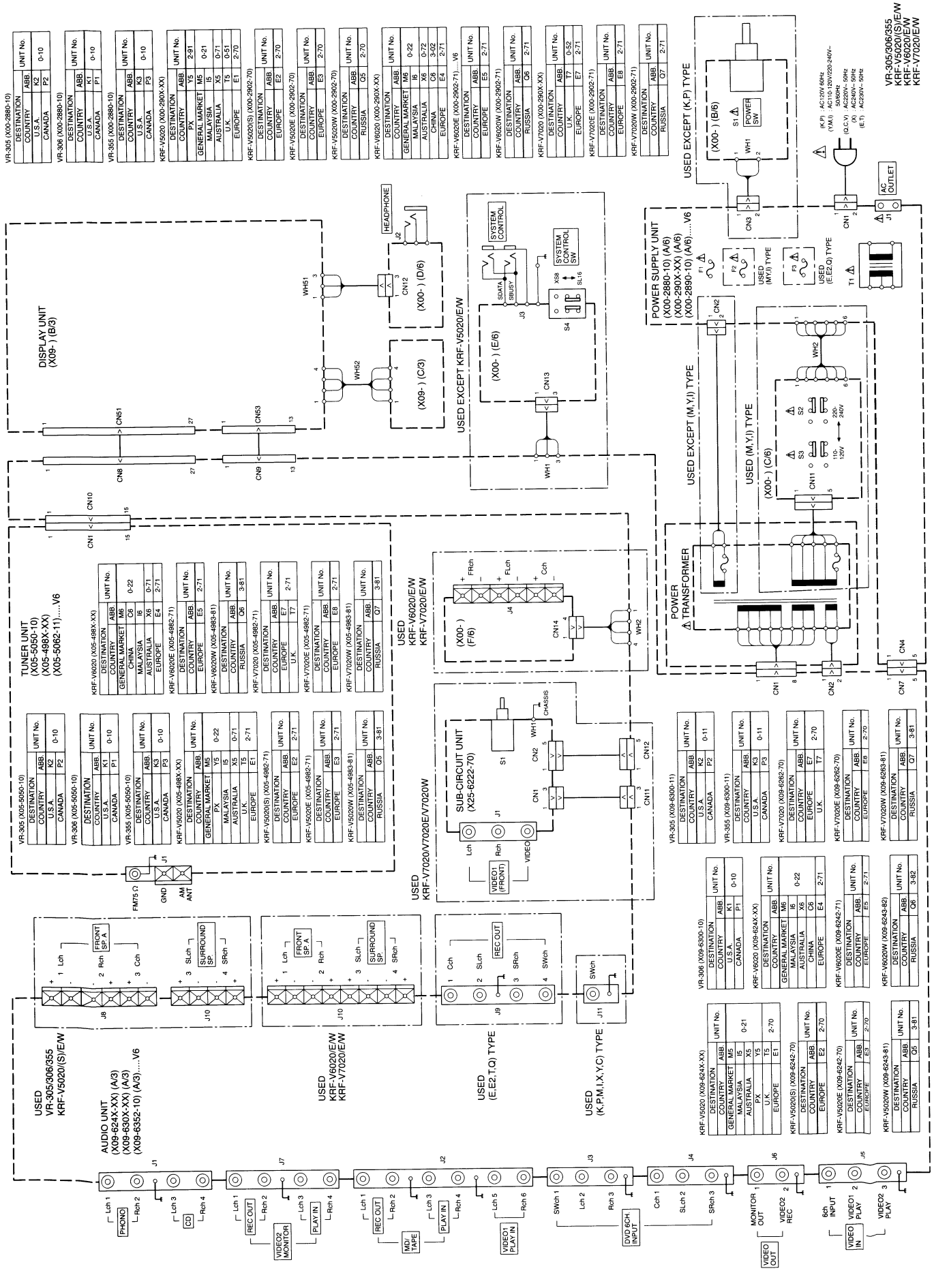
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION : EXCEPT E,T,Q type		**SELECTOR : FM**					
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 70dBf (ANT. input)	(B)	98.0MHz	IFT (TUNER UNIT: A1)	Minimum distortion (L or R)	
2	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±75kHz dev. 25dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (TUNER UNIT)	Adjust VR1 and stop at the point where ED51 (TUNED) goes on.	
FM SECTION : E,T,Q type only		**SELECTOR : FM ※Adjust NO.1 and NO.2 repeat.**					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN2 ① and CN2 ② (TUNER UNIT)	MONO 98.0MHz	L4 (TUNER UNIT)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (TUNER UNIT)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT (TUNER UNIT : A1)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 29dBf (ANT. input)	(B)	MONO 98.0MHz	VR1 (TUNER UNIT)	Adjust VR1 and stop at the point where ED51 (TUNED) goes on.	

SYSTEM CONNECTIONS



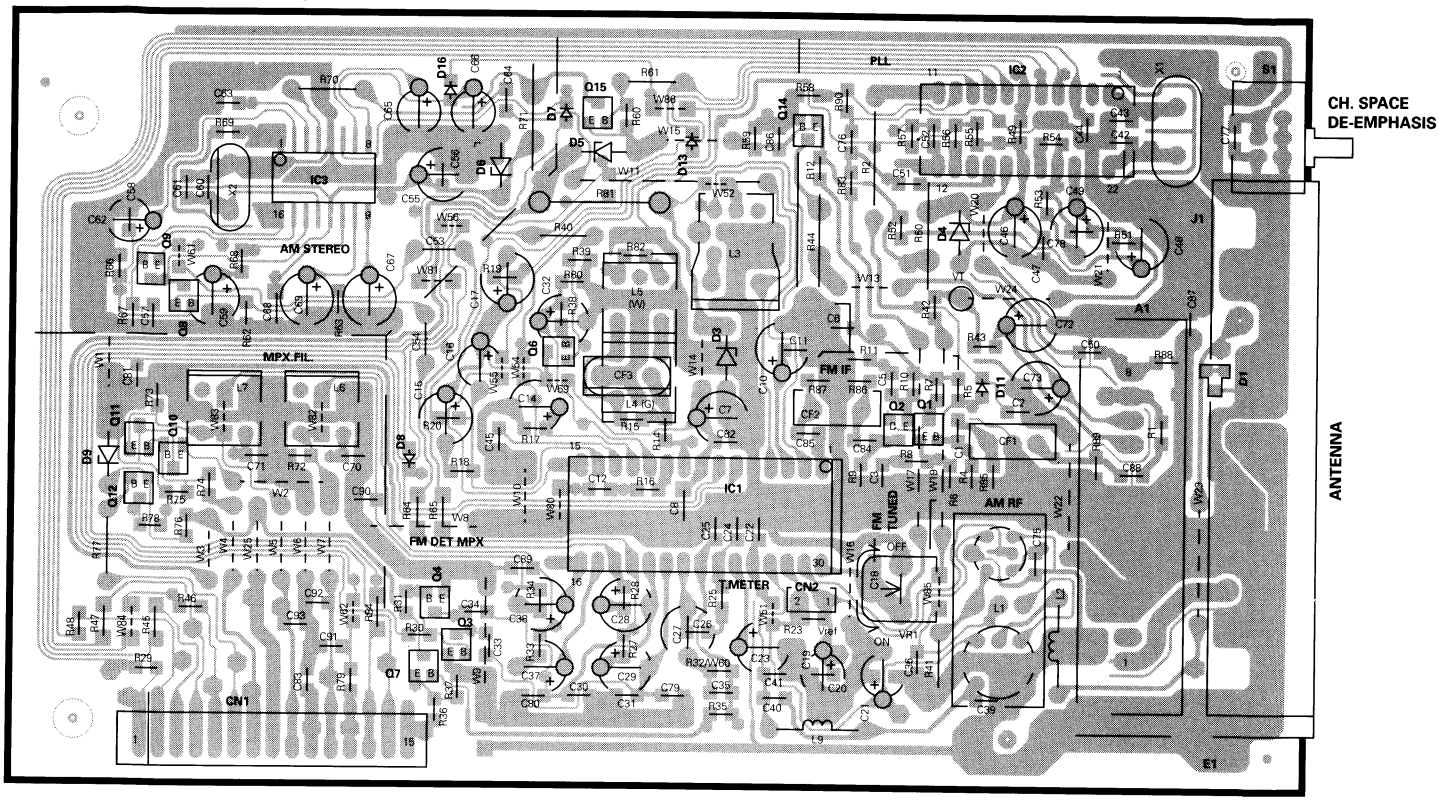
KRF-V5020/V6020/V7020/VR-305/306/355

WIRING DIAGRAM

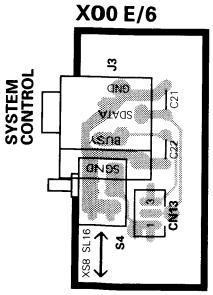


PC BOARD(Component side view)

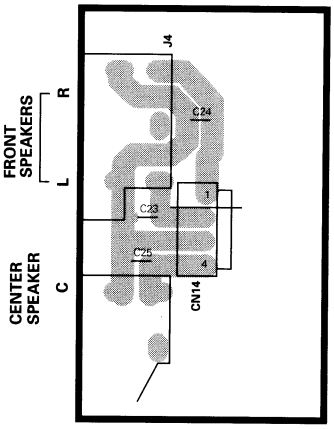
X05-4980-10/X05-5050-10/X05-5062-11



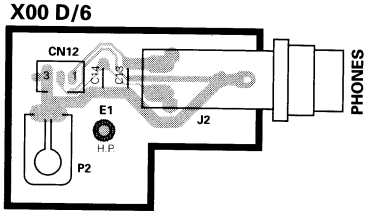
X00 E/6



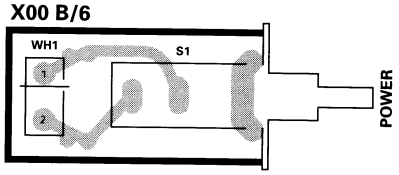
X00 F/6



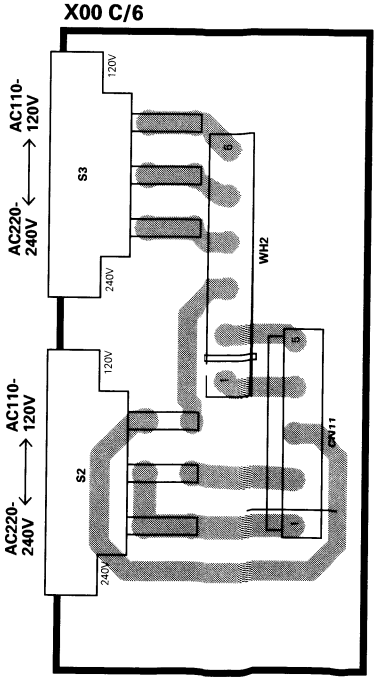
X00 D/6



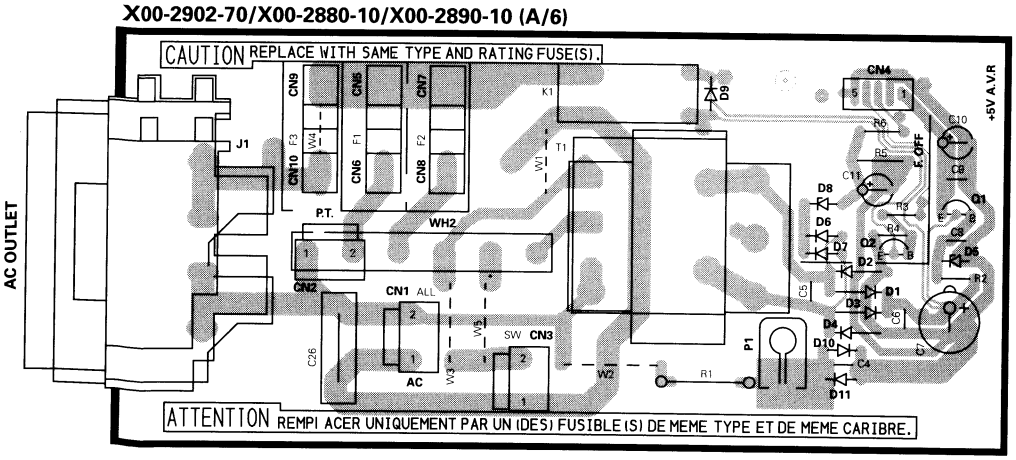
X00 B/6



X00 C/6

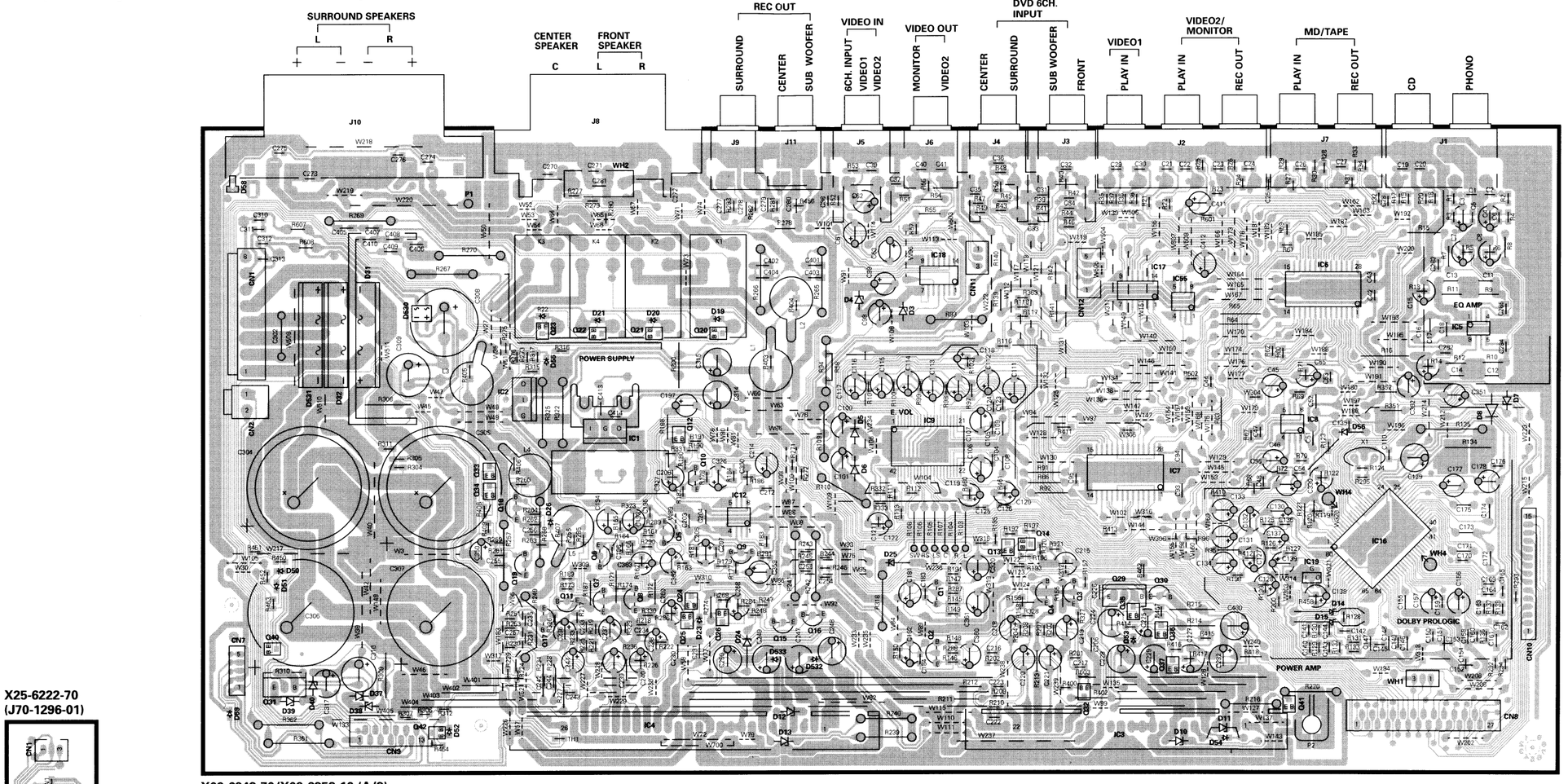


X00-2902-70/X00-2880-10/X00-2890-10 (A/6)



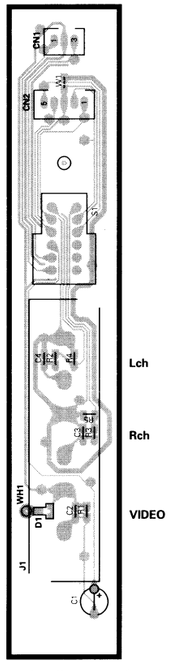
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD(Component side view)

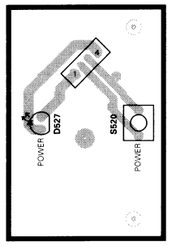


X09-6242-70/X09-6352-10 (A/3)

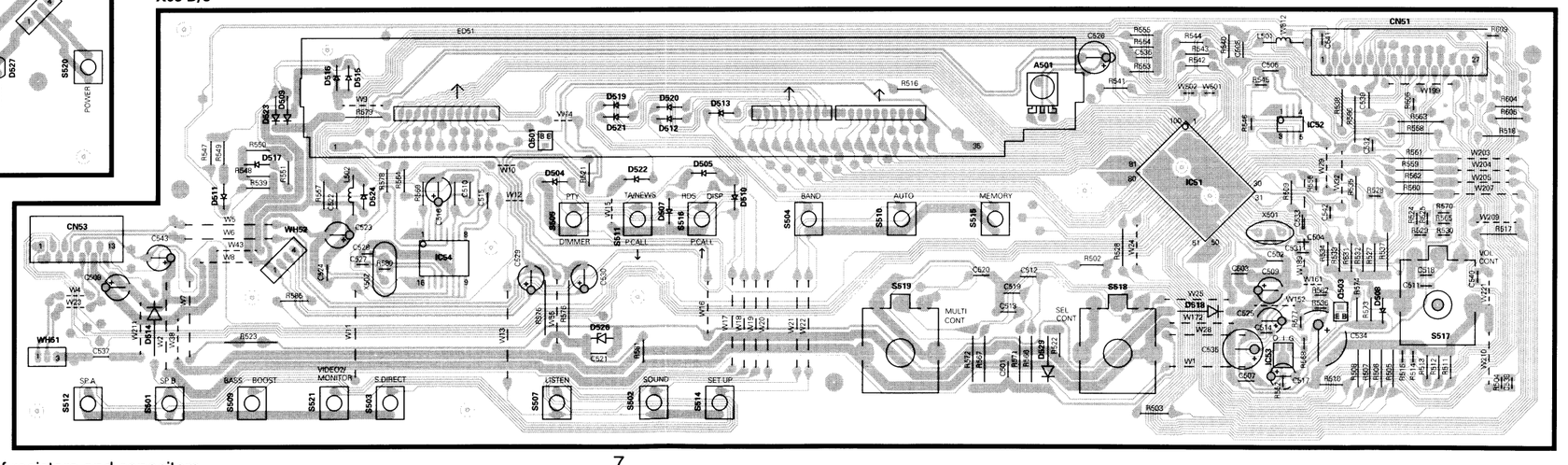
X25-6222-70
(J70-1296-01)



X09 C/3



X09 B/3



Refer to the schematic diagram for the value of resistors and capacitors.

VR-355 (X05-5050-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ	R8, 11	R14	R15,36, 82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71,79, 80,82
COUNTRY	ABB.																	
U.S.A.	K3	0-10	NO	33	270	NO	3.3K	18K	7.5K	YES	15K	YES	470P	0.022	0.033	27P	22P	NO
CANADA	P3																	

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56	W60	W82, 83	E1	J1	X1
COUNTRY	ABB.													
U.S.A.	K3	W02-2622	L72-0596 (MS2)	YES	LA-1838	NO	L40-1001-82	NO	NO	NO	YES	F10-1108	E70-0080-05	L77-2187
CANADA	P3													

KRF-V5020 (X05-498X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82	C74
COUNTRY	ABB.																				
GENERAL MARKET	M5	0-22	NO	YES	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	YES	470P	0.022	0.022	12P	10P	NO	NO
PX	Y5																				
MALAYSIA	I5																				
AUSTRALIA	X5	0-71		NO																	
U.K.	T5	2-71	YES		10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018				YES	
EUROPE	E1																				

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56	W60	W82, 83	E1	J1	X1
COUNTRY	ABB.													
GENERAL MARKET	M5	W02-2622	L72-0531 (MA5)	YES	LA-1838	NO	L40-1001-17	NO	YES	NO	YES	F10-1129	E70-0321-05 E70-0052-05	L77-2232
PX	Y5													
MALAYSIA	I5													
AUSTRALIA	X5													
U.K.	T5	W02-2584	L72-0536 (MS3)	NO	LA-1837	YES		YES	NO	YES	NO	F10-1128		
EUROPE	E1													

KRF-V5020(S) (X05-4982-71)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
EUROPE	E2	2-71	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
EUROPE	E2	W02-2584	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232

KRF-V5020E (X05-4982-71)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
EUROPE	E3	2-71	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
EUROPE	E3	W02-2584	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232

KRF-V5020W (X05-4983-81)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
RUSSIA	Q5	3-81	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
RUSSIA	Q5	W02-2586	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232

KRF-V6020 (X05-498X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82	C74
COUNTRY	ABB.																				
GENERAL MARKET	M6	0-22	NO	YES	33	33	270	NO	3.3K	18K	7.5K	YES	8.2K	YES	470P	0.022	0.022	12P	10P	NO	NO
CHINA	C6																				
MALAYSIA	I6																				
AUSTRALIA	X6	0-71		NO																	
EUROPE	E4	2-71	YES		10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018				YES	

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56	W60	W82, 83	E1	J1	X1
COUNTRY	ABB.													
GENERAL MARKET	M6	W02-2622	L72-0531 (MA5)	YES	LA-1838	NO	L40-1001-17	NO	YES	NO	YES	F10-1129	E70-0321-05 E70-0052-05	L77-2232
CHINA	C6													
MALAYSIA	I6													
AUSTRALIA	X6													
EUROPE	E4	W02-2584	L72-0536 (MS3)	NO	LA-1837	YES		YES	NO	YES	NO	F10-1128		

KRF-V6020(X05-5062-11)

COUNTRY	ABB.	Ⓐ Ⓒ Ⓕ	Ⓑ	C8	C25	C26	C30,31	C42	C43	C70,71,74,79,80,82	C89,90	CN2	J1	E1	CF1,2	CF3
SHANGHAI	V6	NO	YES	YES	470P	0.022	YES	27P	22P	NO	YES	NO	E70-0080	YES	L72-0531	YES

COUNTRY	ABB.	L4-7	X1	R8,11	R14	R15	R23	R25	R27,28	R32	R72,73	R80,82	W53,60	W56,82,83	D13	IC1	A1
SHANGHAI	V6	NO	L77-2187	33	270	NO	3.3K	1.8K	7.5K	YES	8.2K	NO	NO	YES	NO	LA1838	W02-2622

KRF-V6020E (X05-4982-71)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
EUROPE	E5	2-71	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
EUROPE	E5	W02-2584	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232

KRF-V6020W (X05-4983-81)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
RUSSIA	Q6	3-81	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
RUSSIA	Q6	W02-2586	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232

KRF-V7020 (X05-4982-71)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
EUROPE	E7	2-71	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES
U.K.	T7																			

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
EUROPE	E7	W02-2584	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232
U.K.	T7												

KRF-V7020E (X05-4982-71)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
EUROPE	E8	2-71	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
EUROPE	E8	W02-2584	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232

KRF-V7020W (X05-4983-81)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓕ	Ⓑ	R8	R11	R14	R15, 36,82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71, 79,80,82
COUNTRY	ABB.																			
RUSSIA	Q7	3-81	YES	NO	10	22	100	YES	15K	27K	4.3K	NO	3.9K	NO	180P	0.018	0.022	12P	10P	YES

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56, 82,83	W60	E1	J1	X1
COUNTRY	ABB.												
RUSSIA	Q7	W02-2586	L72-0536 (MS3)	NO	LA-1837	YES	L40-1001-17	YES	NO	YES	F10-1128	E70-0321-05 E70-0052-05	L77-2232

VR-305 (X05-5050-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ	R8, 11	R14	R15,36, 82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71,79, 80,82
COUNTRY	ABB.																	
U.S.A.	K2	0-10	NO	33	270	NO	3.3K	18K	7.5K	YES	15K	YES	470P	0.022	0.033	27P	22P	NO
CANADA	P2																	

DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56	W60	W82, 83	E1	J1	X1
COUNTRY	ABB.													
U.S.A.	K2	W02-2622	L72-0596 (MS2)	YES	LA-1838	NO	L40-1001-82	NO	NO	NO	YES	F10-1108	E70-0080-05	L77-2187
CANADA	P2													

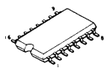
VR-306 (X05-5050-10)

DESTINATION		UNIT No.	Ⓐ Ⓑ Ⓒ Ⓕ	R8, 11	R14	R15,36, 82	R23	R25	R27, 28	R32	R72, 73	C8,35,74, 89,90	C25	C26	C30, 31	C42	C43	C70,71,79, 80,82
COUNTRY	ABB.																	
U.S.A.	K1	0-10	NO	33	270	NO	3.3K	18K	7.5K	YES	15K	YES	470P	0.022	0.033	27P	22P	NO
CANADA	P1																	

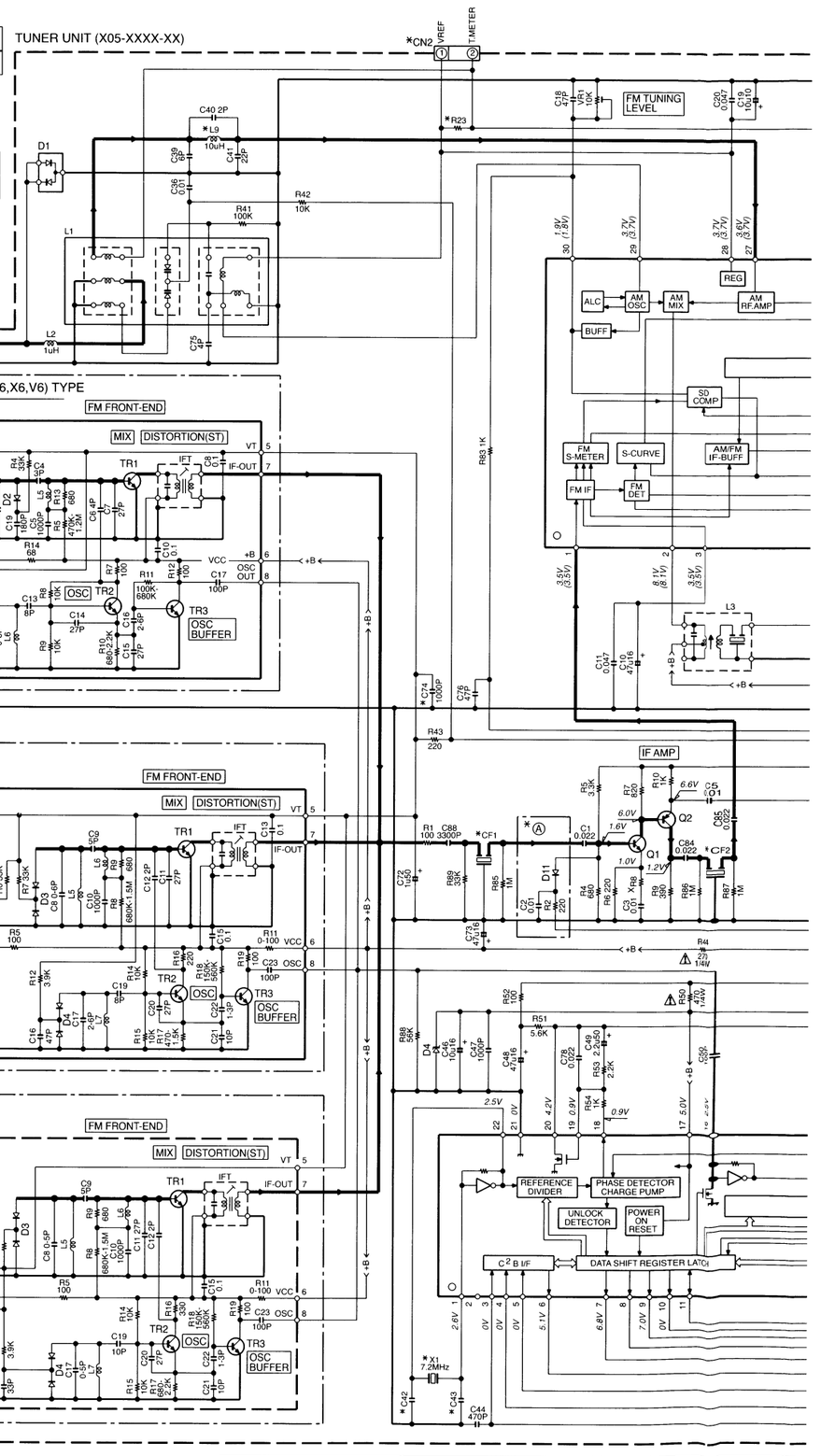
DESTINATION		A1	CF1,2	CF3	IC1	L4,5, 6,7	L9	CN2	W56	W60	W82, 83	E1	J1	X1
COUNTRY	ABB.													
U.S.A.	K1	W02-2622	L72-0596 (MS2)	YES	LA-1838	NO	L40-1001-82	NO	NO	NO	YES	F10-1108	E70-0080-05	L77-2187
CANADA	P1													

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

SAA6579T



TC9162AF
TC9164AF



IC1 : *
IC2 : LC72131

Q1,3,4,6,7 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q2,12,14 : 2SA1576A(R,S) or 2SB1218A(Q,R)
Q10,11 : 2SD1757K

D1 : DA204U or MA143A or 1SS302
D3 : RD8.2ES(B2) or MTZJ8.2(B) or HZS8.2N(B2)
D4 : RD5.1ES(B2) or MTZJ5.1(B) or HZS5.1N(B2)
D5 : RD2.7ES(B2) or MTZJ2.7(B) or HZS2.7N(B2)
D8,11,13 : MA111
D9 : RD3.3ES(B2) or MTZJ3.3(B) or HZS3.3N(B2)

A1 : *

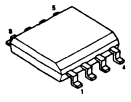
DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM made.

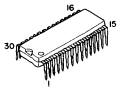
MODE	CARRIER	* MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

(X05-XXXX-XX)

X24C02S



LA1837
LA1838



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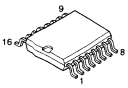
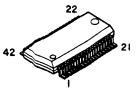
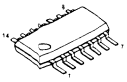


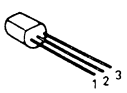
M62446FP



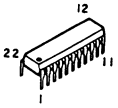
BU4066BCF
NJM2279M



S-80740AL-A4



LC72131



VR305/306/355 (1/3)
KRF-V5020/E/W (1/3)
KRF-V6020/E/W (1/3)
KRF-V7020/E/W (1/3)

KRF-V5020/V6020/V7020/VR-305/306/355

Y05-3782-70

KENWOOD

IC1	: TA7815SB	D3,4,7	: MTZJ5.1(B) or RD5.1ES(B2)
IC2	: TA79015SB	D5,6	: MTZJ6.8(B) or RD6.8ES(B2)
IC3	: *	D8	: MTZJ11(B) or RD11ES(B2)
IC4	: *	D10,12,13	: MTZJ8.2(B) or RD8.2ES(B2)
IC5	: NJM4580ED	D11,56	: MTZJ7.5(B) or RD7.5ES(B2)
IC6	: TC9164AF	D14,15	: MTZJ10(B) or RD10ES(B2)
IC7	: TC9162AF	D19-23,26,50-55,59,532,533	: MA111
IC8,12,55	: NJM4565MD	D24	: MTZJ4.7(B) or RD4.7ES(B2)
IC9	: M62446FP	D25	: MTZJ3.3(B) or RD3.3ES(B2)
IC16	: M62460FP	D31,32	: D4SBL20UF03
IC17	: BU4066BCF	D37,38	: MTZJ16(B) or RD16ES(B2)
IC18	: NJM2279M	D39,40	: MTZJ18(B) or RD18ES(B2)
IC19	: M5278L05M	D530	: S1ZB20(4072)
Q1-11	: 2SC2878(B)		
Q12,40,42	: 2SC4213(B)		
Q13,14	: 2SA1586(Y,GR) or 2SA1611(M5,M6)		
Q15-19	: 2SC1845(F,E)		
Q20-23	: DTC123JUA		
Q24,25,32-34,36,37	: 2SC3722K(R,S)		
Q26,35	: 2SA1255		
Q29	: 2SC3944A(R,S)		
Q30	: 2SA1285A(F) or 2SA1123(S,T)		
Q31	: 2SB1640		
Q41	: DTC113ZUA or UN5219		
TH1	: PTH9C42BD471Q		

SIGNAL LINE
GND LINE
+B LINE
−B LINE

AUDIO UNIT
(X09-6XXX-XX) (A/3)

USED
KRF-V7020/E/W

SUB CIRCUIT UNIT (X25-6222-70)

D1 : DA204U

IC18 I/O TABLE

INPUT	OUTPUT ⑩ MONITOR	OUTPUT ⑤ VIDEO1 REC	② V-A	⑬ V-B	④ MUTE
⑫ VIDEO1	○	×	L	L	L
③ VIDEO2	○	○	L	H	H
① 6ch INPUT	○	○	H	H	H

IC18
(BOTTOM VIEW)

VIDEO AMP SEL.

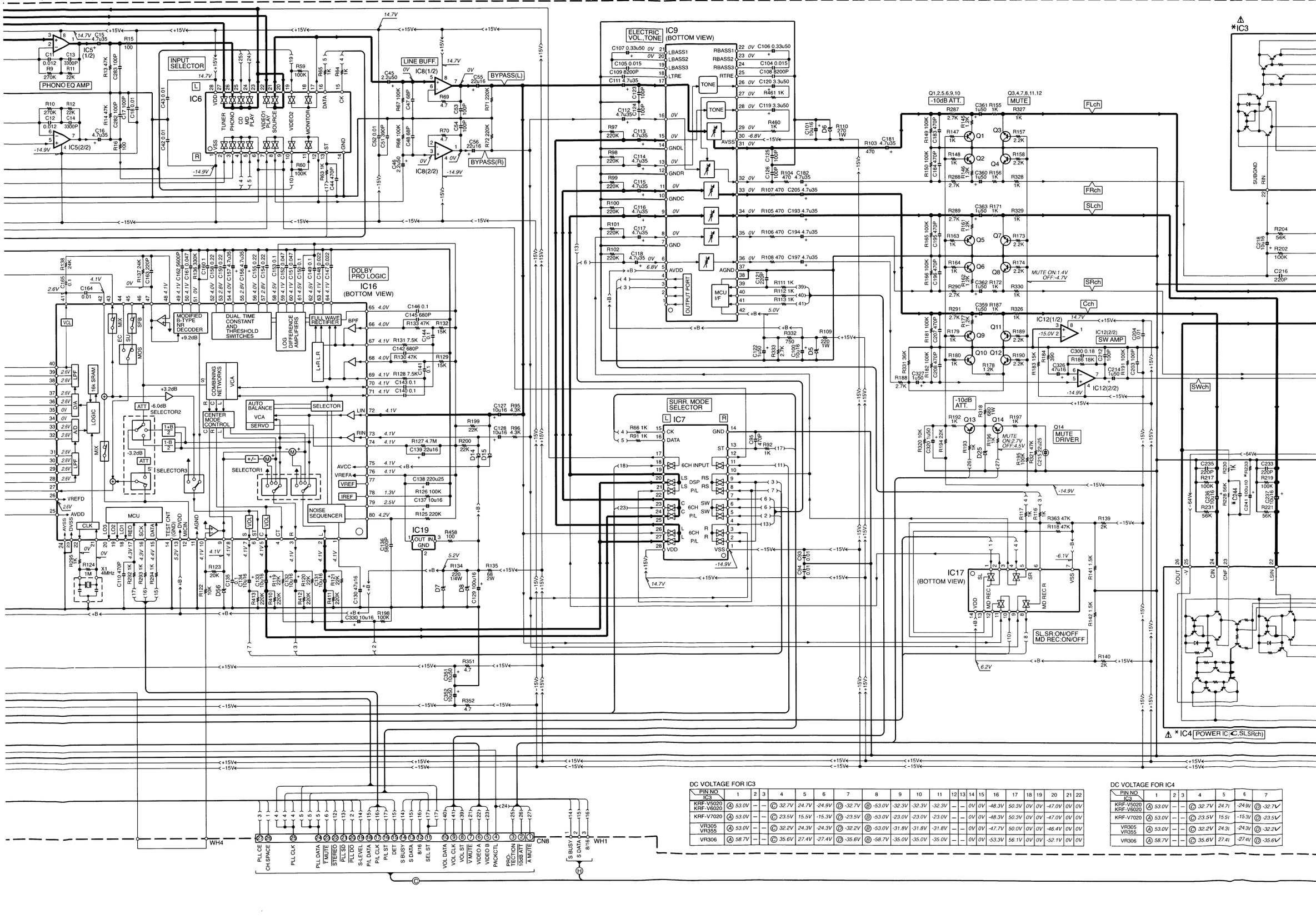
PHONO
CD
REC OUT
VIDEO2 MONITOR
PLAY IN
REC BUFF.
MD/ TAPE
VIDEO1 PLAY IN
DVD 6CH. INPUT
6ch INPUT
VIDEO IN
VIDEO1 PLAY
VIDEO2 PLAY
MONITOR OUT
VIDEO OUT
VIDEO2 REC

IC55 (1/2) 14.7V
IC55 (2/2) -14.9V

CN10: MONO, PLL DO, PLL CE, PLL CLK, PLL DATA, TMUTE, -15V, +15V, Lch, Rch, STEREO, SD, TV, DET

X05-CN1 1/3

(X09-6XXX-XX) (A/3)



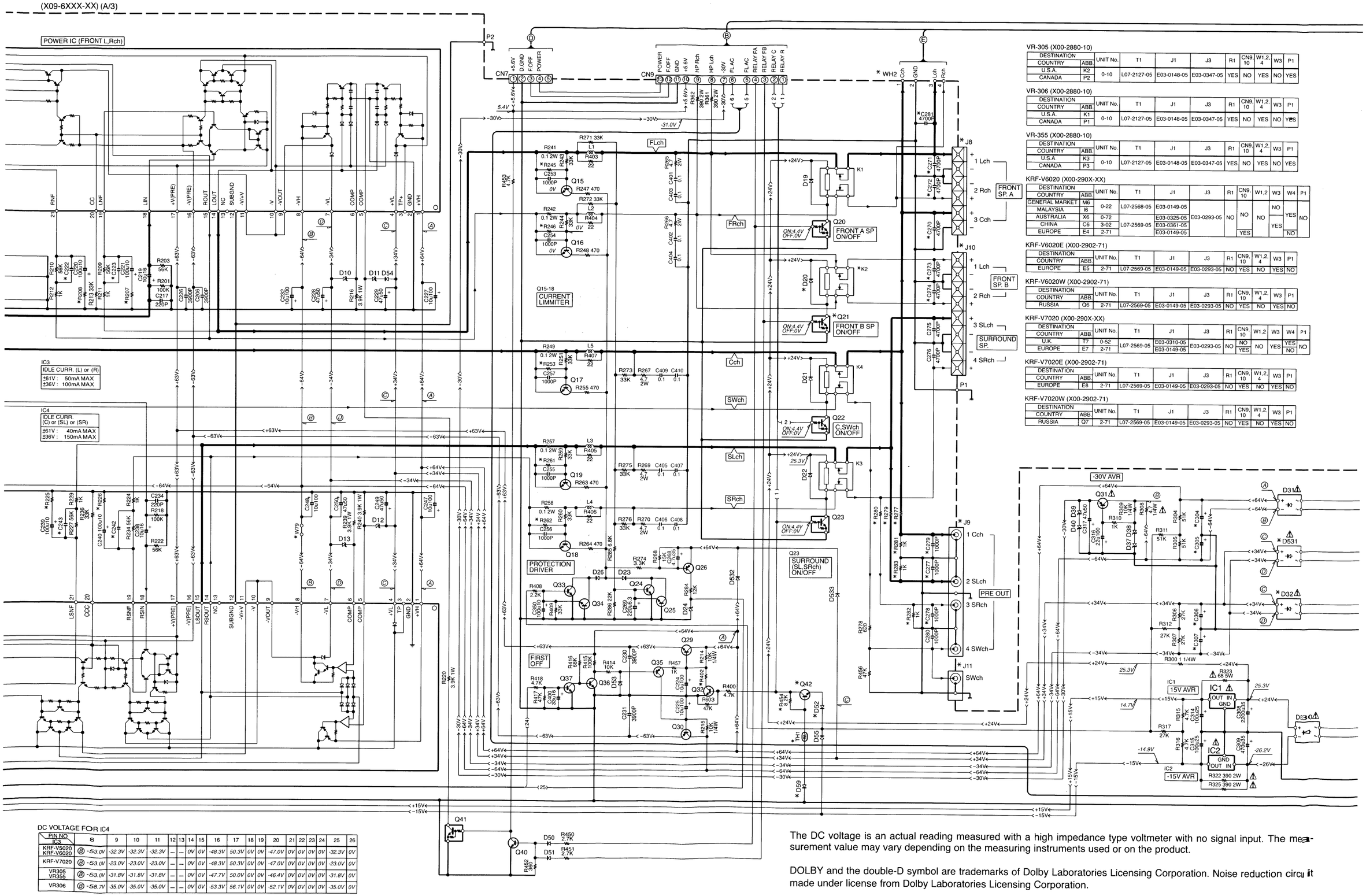
DC VOLTAGE FOR IC3

PIN NO / IC3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KRF-V5020 KRF-V6020	Ⓐ 53.0V	—	—	Ⓒ 32.7V	24.7V	-24.9V	Ⓓ -32.7V	Ⓑ -53.0V	-32.3V	-32.3V	-32.3V	—	—	0V	0V	-48.3V	50.3V	0V	0V	-47.0V	0V	0V
KRF-V7020	Ⓐ 53.0V	—	—	Ⓒ 23.5V	15.5V	-15.3V	Ⓓ -23.5V	Ⓑ -53.0V	-23.0V	-23.0V	-23.0V	—	—	0V	0V	-48.3V	50.3V	0V	0V	-47.0V	0V	0V
VR305 VR355	Ⓐ 53.0V	—	—	Ⓒ 32.2V	24.3V	-24.3V	Ⓓ -32.2V	Ⓑ -53.0V	-31.8V	-31.8V	-31.8V	—	—	0V	0V	-47.7V	50.0V	0V	0V	-46.4V	0V	0V
VR306	Ⓐ 58.7V	—	—	Ⓒ 35.6V	27.4V	-27.4V	Ⓓ -35.6V	Ⓑ -58.7V	-35.0V	-35.0V	-35.0V	—	—	0V	0V	-53.3V	56.1V	0V	0V	-52.1V	0V	0V

DC VOLTAGE FOR IC4

PIN NO / IC3	1	2	3	4	5	6	7
KRF-V5020 KRF-V6020	Ⓐ 53.0V	—	—	Ⓒ 32.7V	24.7V	-24.9V	Ⓓ -32.7V
KRF-V7020	Ⓐ 53.0V	—	—	Ⓒ 23.5V	15.5V	-15.3V	Ⓓ -23.5V
VR305 VR355	Ⓐ 53.0V	—	—	Ⓒ 32.2V	24.3V	-24.3V	Ⓓ -32.2V
VR306	Ⓐ 58.7V	—	—	Ⓒ 35.6V	27.4V	-27.4V	Ⓓ -35.6V

(X09-6XXX-XX) (A/3)



VR-305 (X00-2880-10)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB									
U.S.A.	K2	0-10	L07-2127-05	E03-0148-05	E03-0347-05	YES	NO	YES	NO	YES
CANADA	P2									

VR-306 (X00-2880-10)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB									
U.S.A.	K1	0-10	L07-2127-05	E03-0148-05	E03-0347-05	YES	NO	YES	NO	YES
CANADA	P1									

VR-355 (X00-2880-10)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB									
U.S.A.	K3	0-10	L07-2127-05	E03-0148-05	E03-0347-05	YES	NO	YES	NO	YES
CANADA	P3									

KRF-V6020 (X00-290X-XX)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2	W3	W4	P1
COUNTRY	ABB										
GENERAL MARKET	M6	0-22	L07-2568-05	E03-0149-05					NO		
MALAYSIA	I6						NO			YES	NO
AUSTRALIA	X6	0-72	L07-2569-05	E03-0325-05	E03-0293-05	NO		NO	YES		
CHINA	C6	3-02		E03-0361-05			YES			NO	
EUROPE	E4	2-71		E03-0149-05							

KRF-V6020E (X00-2902-71)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB									
EUROPE	E5	2-71	L07-2569-05	E03-0149-05	E03-0293-05	NO	YES	NO	YES	NO

KRF-V6020W (X00-2902-71)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB									
RUSSIA	Q6	2-71	L07-2569-05	E03-0149-05	E03-0293-05	NO	YES	NO	YES	NO

KRF-V7020 (X00-290X-XX)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2	W3	W4	P1
COUNTRY	ABB										
U.K.	T7	0-52	L07-2569-05	E03-0310-05	E03-0293-05	NO	NO	NO	YES	YES	NO
EUROPE	E7	2-71		E03-0149-05			YES			NO	

KRF-V7020E (X00-2902-71)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB									
EUROPE	E8	2-71	L07-2569-05	E03-0149-05	E03-0293-05	NO	YES	NO	YES	NO

KRF-V7020W (X00-2902-71)

DESTINATION		UNIT No.	T1	J1	J3	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB									
RUSSIA	Q7	2-71	L07-2569-05	E03-0149-05	E03-0293-05	NO	YES	NO	YES	NO

DC VOLTAGE FOR IC4

PIN NO / IC3		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
KRF-V5020 KRF-V6020	Ⓑ	-53.0V	-32.3V	-32.3V	-32.3V	—	—	0V	0V	-48.3V	50.3V	0V	0V	-47.0V	0V	0V	0V	0V	-32.3V	0V
KRF-V7020	Ⓑ	-53.0V	-23.0V	-23.0V	-23.0V	—	—	0V	0V	-48.3V	50.3V	0V	0V	-47.0V	0V	0V	0V	0V	-23.0V	0V
VR305 VR355	Ⓑ	-53.0V	-31.8V	-31.8V	-31.8V	—	—	0V	0V	-47.7V	50.0V	0V	0V	-46.4V	0V	0V	0V	0V	-31.8V	0V
VR306	Ⓑ	-58.7V	-35.0V	-35.0V	-35.0V	—	—	0V	0V	-53.3V	56.1V	0V	0V	-52.1V	0V	0V	0V	0V	-35.0V	0V

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

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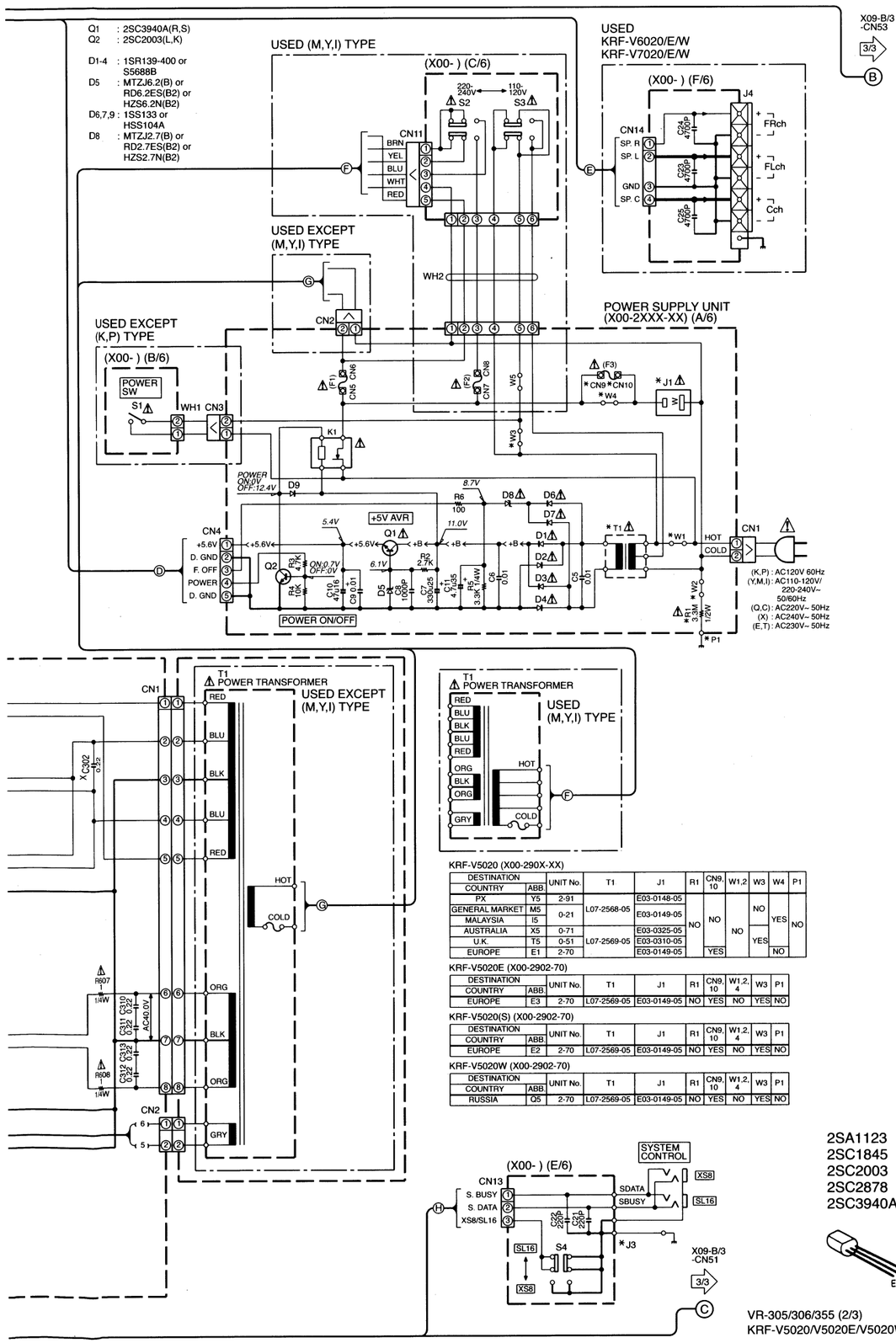
(X09-6XXX-XX) (A/3)



KRF-V5020 (X00-290X-XX)

DESTINATION		UNIT No.	T1	J1	R1	CN9, 10	W1,2	W3	W4	P1
COUNTRY	ABB.									
PX	Y5	2-91	L07-2568-05	E03-0148-05	NO	NO	NO	NO	YES	NO
GENERAL MARKET	M5	0-21		E03-0149-05						
MALAYSIA	I5									
AUSTRALIA	X5	0-71		E03-0325-05				YES		
U.K.	T5	0-51	L07-2569-05	E03-0310-05						
EUROPE	E1	2-70		E03-0149-05		YES		NO		

KRF-V5020E (X00-2902-70)

DESTINATION		UNIT No.	T1	J1	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB.								
EUROPE	E3	2-70	L07-2569-05	E03-0149-05	NO	YES	NO	YES	NO

KRF-V5020(S) (X00-2902-70)

DESTINATION		UNIT No.	T1	J1	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB.								
EUROPE	E2	2-70	L07-2569-05	E03-0149-05	NO	YES	NO	YES	NO

KRF-V5020W (X00-2902-70)

DESTINATION		UNIT No.	T1	J1	R1	CN9, 10	W1,2, 4	W3	P1
COUNTRY	ABB.								
RUSSIA	Q5	2-70	L07-2569-05	E03-0149-05	NO	YES	NO	YES	NO

VR-305 (X09-6300-11)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272	C273,274,277-279, 281,302,539	C304, 305	C306, 307	CN11, 12	D20,32, 52,59	D531	IC3	IC4	J8,11	J9	J10	K2	Q21, 42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280-283,454	R402	TH1	W503-505	WH2
COUNTRY	ABB.																							
U.S.A.	K2	0-11	15P	YES	NO	4700u 75	3300u 42	NO	NO	YES	STK411-220D	STK410-020D	YES	NO	E70-0057-05 4P	NO	NO	360	36K	NO	56K	NO	YES	NO
CANADA	P2																							

VR-306 (X09-6300-10)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272	C273,274,277-279, 281,302,539	C304, 305	C306, 307	CN11, 12	D20,32, 52,59	D531	IC3	IC4	J8,11	J9	J10	K2	Q21, 42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280-283,454	R402	TH1	W503-505	WH2
COUNTRY	ABB.																							
U.S.A.	K1	0-10	15P	YES	NO	4700u 75	3300u 42	NO	NO	YES	STK411-230D	STK410-030D	YES	NO	E70-0057-05 4P	NO	NO	330	33K	NO	43K	NO	YES	NO
CANADA	P1																							

VR-355 (X09-6300-11)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272	C273,274,277-279, 281,302,539	C304, 305	C306, 307	CN11, 12	D20,32, 52,59	D531	IC3	IC4	J8,11	J9	J10	K2	Q21, 42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280-283,454	R402	TH1	W503-505	WH2
COUNTRY	ABB.																							
U.S.A.	K3	0-11	15P	YES	NO	4700u 75	3300u 42	NO	NO	YES	STK411-220D	STK410-020D	YES	NO	E70-0057-05 4P	NO	NO	360	36K	NO	56K	NO	YES	NO
CANADA	P3																							

KRF-V5020 (X09-624X-XX)

DESTINATION		UNIT No.	C222,223, 242-244	C270,272, 302	C271	C273, 274	C277-279, 539	C281	C304, 305	C306, 307	CN11, 12	D20, 531	D32	D52, 59	IC3	IC4	J8	J9	J10	J11	K2	Q21	Q42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																														
GENERAL MARKET	M5	0-21	15P	YES	YES	NO	NO	NO	4700u 75	3300u 42	NO	NO	YES	YES	STK411-220D	STK410-020D	YES	NO	E70-0057-05 4P	YES	NO	NO	YES	360	36K	NO	NO	27K	YES	YES	YES	NO
MALAYSIA	I5																														
AUSTRALIA	X5																														
PX	Y5																														
U.K.	T5	2-70	10P		NO		YES	YES	4700u 63	3300u 35				NO				YES		NO			NO	470		16K	YES	24K	NO	NO		
EUROPE	E1																														

KRF-V5020(S) (X09-6242-70)

DESTINATION		UNIT No.	C222,223, 242-244	C270,272,277-279, 281,302,539	C271,273, 274	C304, 305	C306, 307	CN11, 12	D20,32, 59,531	D32	IC3	IC4	J8,9	J10	J11	K2	Q21, 42	R207,208,225 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																									
EUROPE	E2	2-70	10P	YES	NO	4700u 63	3300u 35	NO	NO	YES	STK411-220D	STK410-020D	YES	E70-0057-05 4P	NO	NO	NO	470	36K	16K	YES	24K	NO	NO	YES	NO

KRF-V5020E (X09-6242-70)

DESTINATION		UNIT No.	C222,223, 242-244	C270,272,277-279, 281,302,539	C271,273, 274	C304, 305	C306, 307	CN11, 12	D20,32, 59,531	D32	IC3	IC4	J8,9	J10	J11	K2	Q21, 42	R207,208,225 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																									
EUROPE	E3	2-70	10P	YES	NO	4700u 63	3300u 35	NO	NO	YES	STK411-220D	STK410-020D	YES	E70-0057-05 4P	NO	NO	NO	470	36K	16K	YES	24K	NO	NO	YES	NO

KRF-V5020W (X09-6243-81)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272,277-279, 302,539	C273,274, 281	C304, 305	C306, 307	CN11, 12	D20,32, 59,531	D32	IC3	IC4	J8,9	J10	J11	K2	Q21, 42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																									
RUSSIA	Q5	3-81	10P	YES	NO	4700u 63	3300u 35	NO	NO	YES	STK411-220D	STK410-020D	YES	E70-0057-05 4P	NO	NO	NO	470	36K	16K	YES	24K	NO	NO	YES	NO

KRF-V6020 (X09-624X-XX)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272, 281	C273,274, 302	C277-279, 539	C304, 305	C306, 307	CN11, 12	D20, 32	D531	D52, 59	IC3	IC4	J8	J9	J10	J11	K2	Q21	Q42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																													
GENERAL MARKET	M6	0-22	15P	NO	YES	NO	4700u 75	3300u 42	NO	YES	NO	YES	STK411-220D	STK410-020D	NO	NO	E70-0047-05 8P	YES	YES	YES	YES	360	36K	NO	NO	27K	YES	YES	YES	YES
MALAYSIA	I6																													
AUSTRALIA	X6																													
CHINA	C6																													
EUROPE	E4	2-71	10P			YES	4700u 63	3300u 35				NO				YES		NO			NO	470		16K	YES	24K	NO	NO		

KRF-V6020(X00-2892-10)

COUNTRY	ABB.	C13,14	C23-25	WH2	CN2,3	CN11	CN14	J1	J2	J3	J4	P1	W1,2,5	CN7-10	T1	S1	S2,3
SHANGHAI	V6	150P	YES	NO	YES	NO	YES	E03-0361	E11-0295	E11-0347	YES	NO	NO	NO	L07-2129	S68-0088	NO

KRF-V6020(X05-5062-11)

COUNTRY	ABB.	Ⓐ Ⓒ Ⓕ	Ⓑ	C8	C25	C26	C30,31, 35	C42	C43	C70,71,74, 79,80,82	C89,90	CN2	J1	E1	CF1,2	CF3	L4-7	X1	R8,11	R14	R15	R23
SHANGHAI	V6	NO	YES	YES	470P	0.022	YES	27P	22P	NO	YES	NO	E70-0080	YES	L72-0531	YES	NO	L77-2187	33	270	NO	3.3K

KRF-V6020(X05-5062-11)

COUNTRY	ABB.	R25	R27,28	R32	R72,73	R80,82	W53,60	W56,82,83	D13	IC1	A1
SHANGHAI	V6	1.8K	7.5K	YES	8.2K	NO	NO	YES	NO	LA1838	W02-2622

KRF-V6020(X09-6352-10)

COUNTRY	ABB.	C222,223,2 42-244	C270-272	C273,274	C277-279, 281,302,539	C302	C304,305	C306,307	C510,515,516 ,522-524,527,528, 533,535,540	P1	P2	WH1,2,4, 51,52	CN11,12	J1	J2
SHANGHAI	V6	15P	NO	YES	NO	C91-1480	4700U75	3300U42	NO	NO	YES	YES	NO	E63-0172	E63-0173

KRF-V6020(X09-6352-10)

COUNTRY	ABB.	J3,4	J5	J6	J7	J8,9	J10	J11	W209	L501,502	X502	R207,208,225, 226,233	R245,246,253, 261,262	R277, 279-283	R402	R454	R509
SHANGHAI	V6	E63-1017	E63-1018	E63-1019	E63-0172	NO	E70-0047	E63-1016	YES	NO	NO	360	36K	NO	56K	8.2K	NO

KRF-V6020(X09-6352-10)

COUNTRY	ABB.	R517	R526	R556	R577,564,569, 578,580	W503-506	K6	D20,32,52,59, 504,510	D505,507,522, 524,531	IC3	IC4	IC51	IC52	IC54	Q21,42	TH1
SHANGHAI	V6	10K	100	10K	NO	NO	YES	YES	NO	STK411-220D	STK410-020D	CXP82832-155Q	YES	NO	YES	YES

KRF-V6020E (X09-6242-71)

DESTINATION		UNIT No.	C222,223, 212-244	C270-272, 281	C273,274,277-279, 302,539	C304, 305	C306, 307	CN11, 12	D20, 32	D32,59, 531	IC3	IC4	J8,11	J9	J10	K2	Q21	Q42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																										
EUROPE	E5	2-71	10P	NO	YES	4700u 63	3300u 35	NO	YES	NO	STK411-220D	STK410-020D	NO	YES	E70-0047-05 8P	YES	YES	NO	470	36K	16K	YES	24K	NO	NO	YES	YES

KRF-V6020W (X09-6243-82)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272, 281	C273,274,277-279, 302,539	C304, 305	C306, 307	CN11, 12	D20, 32	D32,59, 531	IC3	IC4	J8,11	J9	J10	K2	Q21	Q42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																										
RUSSIA	Q6	3-82	10P	NO	YES	4700u 63	3300u 35	NO	YES	NO	STK411-220D	STK410-020D	NO	YES	E70-0047-05 8P	YES	YES	NO	470	36K	16K	YES	24K	NO	NO	YES	YES

KRF-V7020 (X09-6262-70)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272, 281	C273,274,277-279, 302,539	C304, 305	C306, 307	CN11, 12	D20, 32	D32,59, 531	IC3	IC4	J8,11	J9	J10	K2	Q21	Q42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																										
EUROPE	E7	2-70	10P	NO	YES	4700u 63	3300u 35	YES	YES	NO	STK411-230D	STK410-030D	NO	YES	E70-0047-05 8P	YES	YES	NO	430	33K	18K	YES	33K	NO	NO	NO	YES
U.K.	T7																										

KRF-V7020E (X09-6262-70)

DESTINATION		UNIT No.	C222,223, 242-244	C270-272, 281	C273,274,277-279, 302,539	C304, 305	C306, 307	CN11, 12	D20, 32	D32,59, 531	IC3	IC4	J8,11	J9	J10	K2	Q21	Q42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																										
EUROPE	E8	2-70	10P	NO	YES	4700u 63	3300u 35	YES	YES	NO	STK411-230D	STK410-030D	NO	YES	E70-0047-05 8P	YES	YES	NO	430	33K	18K	YES	33K	NO	NO	NO	YES

KRF-V7020W (X09-6263-81)

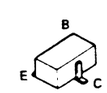
DESTINATION		UNIT No.	C222,223, 242-244	C270-272, 281	C273,274,277-279, 302,539	C304, 305	C306, 307	CN11, 12	D20, 32	D32,59, 531	IC3	IC4	J8,11	J9	J10	K2	Q21	Q42	R207,208,225, 226,233	R245,246,253, 261,262	R277,279, 280	R281-283	R402	R454	TH1	W503-505	WH2
COUNTRY	ABB.																										
RUSSIA	Q7	3-81	10P	NO	YES	4700u 63	3300u 35	YES	YES	NO	STK411-230D	STK410-030D	NO	YES	E70-0047-05 8P	YES	YES	NO	430	33K	18K	YES	33K	NO	NO	NO	YES

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

2SA1123
2SC1845
2SC2003
2SC2878
2SC3940A

UN5219
2SA1255
2SA1586
2SB1218A
2SC3722K

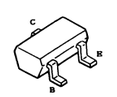
2SC4116
2SD1819A



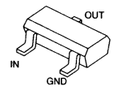
2SC3944A

2SA1285A

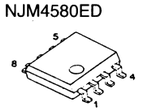
2SC4081
2SD1757K



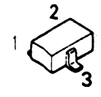
DTC123JUA



NJM4565MD
NJM4580ED



DA204U



VR-305/306/355 (2/3)
KRF-V5020/V5020E/V5020W/V6020/V6020E/V6020W/V7020/V7020E/V7020W (2/3)

Y05-3782-70

KRF-V5020/V6020/V7020/VR-305/306/355

KENWOOD

DISPLAY UNIT
(X09-6XXX-XX) (B/3)

ED51

10G 9G 8G 7G 6G 5G 4G 3G 2G 1G

P1 SP. A B MUTE
P5 R D S P6 EON P7 FM P8 AM P9 MW P10 LW
P11 TI.VOL
P12 S.DIRECT
P13 TAPE2/MONI

P15 TA | P15 NEWS | P15 TP | P15 PTY | P15 MEMO | P15 col P16 Dp | P11 STEREO P12 TUNED P13 AUTO P14 MHz P15 kHz

(P1) (P2) (P3) (P4) (P5) (P6) (P7) (P8) (P9) (P10) (P11) (P12) (P13) (P14)
(9G-2G)

WH52

SOURCE DIRECT S503 | VIDEO2/ MONITOR S521 | BASS BOOST S509 | SP.B or MUTE S501 | SP.A or SP S512
SETUP S514 | SOUND S502 | LISTEN MODE S507 | PTY or DIMMER S505
MEMORY S515 | AUTO S510 | BAND S504 | RDS DISP or P.CALL ∧ S516 | TA/NEWS or P.CALL ∨ S511

D513 D512 D520 D521 D519

5.4V
-28.7V G1 DRIVER
Q501
-28.7V
R521 100K

*IC51
u-COM
(BOTTOM VIEW)

P7/KS1 P6/KS2 P5/KS3 P4/KS4 P3/KS5 P2/KS6 P1/KS7 EMPHASIS NC PACKCTL NC NC NC NC STANDBY POWER RELAY R RELAY C RELAY FB RELAY FA VIDEO B VIDEO A V MUTE VOL STB VOL CLK VOL DT 10dB ATT NC A MUTE

T.MUTE PLL CE PLL CLK PLL DT SEL STB VFDP VDD TEX TX VSS XTAL EXTAL RST AVSS RCV CE PLL SD STEREO PLL DO P/L DT P/L CLK P/L STB

P8/KS0 P9 P10 P11 P12 P13 P14 P15 VDD P16 P17 G1 G2 G3 G4 G5 G6 G7 G8 G9

G10 G11 NC RDS CLK RDS DATA NC (VOL) ENC1 CW1 REM IN CCW1 NC NC KR0 KR1 KR2 PROTECTION S DATA S BUSY E2 DATA E2 CLK (SEL) ENC2 CW2 CCW2 (MLT) ENC3 CW3 CCW3 8/16 NC NC NC AV REF S LEVEL P/L STB

X501 8MHz C504 0.01 C502 0.01 C531 0.01

R516 1K R533 10K R534 10K R531 10K R535 10K R556 10K R532 10K R528 100 R537 10K R538 1K R541 100 R542 470 R543 470 R544 470 R561 220 R559 220 R562 220 R560 220

W501 W502

R563 220 R558 220 R545 10K R546 10K R547 100K R550 100K R539 100K R548 100K R549 330 R551 330 R552 1K R536 10K R586 1K R577 10K R582 1K R573 100K R574 1K R581 10K R575 220 1/4W R578 220 1/4W R579 470 1/4W R580 2.2K R587 10K R572 10K R571 10K R566 10K R565 10K R570 10K R553 10K R554 10K R555 10K R540 100K C505 0.01 C536 1000P

S517 VOLUME CONTROL
S518 INPUT SELECTOR
S519 MULTI CONTROL
S519

D505 D504 D510 D522 D507 D509 D523 D511 D517 D516 D515 D518 D529 D508 D526 D524

RESET IC
IC53 IN OUT GND
RESET

*IC52 E2PROM
(BOTTOM VIEW)
IC52 EXIST: 4.6V
NONE: 0V
VCC A0 CPE A1 SCL A2 SDA VSS

L501 1uH
L502 10uH
X502 32MHz

C538 100P C539 100P C540 100P C541 470P C533 1000P C543 4.7u50 C508 100u10 C514 0.01 C517 1u50 C501 0.01 C507 0.01 C509 100u10 C512 0.01 C519 0.01 C513 0.01 C520 0.01 C515 560P C510 0.01 C511 0.01 C518 0.01 C534 0.047F C535 470u6.3 C521 0.01 C522 0.01 C523 100u10 C524 0.01 C525 0.01 C526 47P C527 47P C528 18P C529 4.7u35 C530 4.7u35 C579 0.1 1/4W C528 100u6.3

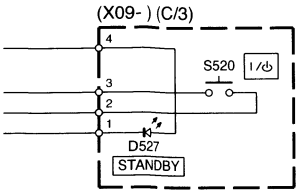
R517 10K R518 10K R526 100 R502 10K R503 10K R504 10K R505 10K R506 10K R507 10K R508 10K R510 10K R511 10K R512 2.2K R513 2.2K R514 2.2K R515 10K R529 47K R530 47K R527 10K R524 100 R525 100 R606 1K R605 1K R609 100 W209

CN51 CN53

X09-A/3 -CN9 2/3 B
X09-A/3 -CN8 2/3 C

PLL CE ENPHASIS SEL/PLL CLK SEL/PLL DT T.MUTE STEREO PLL SD PLL DO S LEVEL P/L DT P/L CLK P/L STB DET S BUSY S DATA 8/16 SEL STB VOL DT VOL CLK VOL STB V.MUTE VIDEO A VIDEO B PACKCTL PROTECTION 10dB ATT A.MUTE

R.MUTE POWER F.OFF GND +5.6V H.P. Rch H.P. Lch -30V FL AC FL AC RELAY FA RELAY FB RELAY C RELAY R
AC5.1



IC51 : *
IC52 : X24C02S
IC53 : S-80740AL-A4
IC54 : SAA6579T/R or SAA6579T

Q501,503 : 2SC4116(Y,GR) or 2SC4177(L5,L6) or

D504,505,507-524,529 : 1SS133 or HSS104A
D526 : MTZJ6.2(B) or RD6.2ES(B2)
D527 : B30-2545-05

A501 : W02-2625-05

ED51 : 11-MT-120GK

VR-305 (X09-6300-11)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504,505, 507,510	IC51	IC52	R509,517, 526	R556	S501	S505	S511	S516	W209	W501, 502	J2
COUNTRY	ABB.																
U.S.A.	K2	0-11	NO	NO	YES	NO	CXP82832 -155Q	NO	NO	YES	MUTE	DIMMER	P.CALL ≪	P.CALL ≫	NO	YES	E11-0295-05
CANADA	P2																

VR-306 (X09-6300-10)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504,505, 507,510	IC51	IC52	R509,517, 526	R556	S501	S505	S511	S516	W209	W501, 502	J2
COUNTRY	ABB.																
U.S.A.	K1	0-10	NO	NO	YES	NO	CXP82832 -155Q	NO	NO	YES	SB P	DIMMER	P.CALL ≪	P.CALL ≫	NO	YES	E11-0295-05
CANADA	P1																

VR-355 (X09-6300-11)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504,505, 507,510	IC51	IC52	R509,517, 526	R556	S501	S505	S511	S516	W209	W501, 502	J2
COUNTRY	ABB.																
U.S.A.	K3	0-11	NO	NO	YES	NO	CXP82832 -155Q	NO	NO	YES	MUTE	DIMMER	P.CALL ≪	P.CALL ≫	NO	YES	E11-0295-05
CANADA	P3																

KRF-V5020 (X09-624X-XX)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504	D505	D507	D510	IC51	IC52	R509	R517,526, 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																		
GENERAL MARKET	M5																		
MALAYSIA	I5	0-21	NO	YES	NO	YES	NO	NO	YES	CXP82832 -155Q	YES	NO	YES	MUTE	DIMMER	P.CALL ≪	P.CALL ≫	YES	E11-0127-05
AUSTRALIA	X5																		
PX	Y5																		
U.K.	T5	2-70	YES			NO	YES			CXP82852 -136Q		YES	NO		PTY	(RDS) DISPLAY	TA/ NEWS	NO	
EUROPE	E1																		

KRF-V5020(S) (X09-6242-70)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504, 507	D505, 510	IC51	IC52	R509	R517,526 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
EUROPE	E2	2-70	YES	YES	NO	NO	YES	CXP82852 -136Q	YES	YES	NO	MUTE	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05

KRF-V5020E (X09-6242-70)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504, 507	D505, 510	IC51	IC52	R509	R517,526 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
EUROPE	E3	2-70	YES	YES	NO	NO	YES	CXP82852 -136Q	YES	YES	NO	MUTE	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05

KRF-V5020W (X09-6243-81)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504,507, 510	D505	IC51	IC52	R509	R517,526 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
RUSSIA	Q5	3-81	YES	YES	NO	YES	NO	CXP82852 -136Q	YES	YES	NO	MUTE	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05

KRF-V6020 (X09-624X-XX)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504	D505	D507	D510	IC51	IC52	R509	R517,526, 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																		
GENERAL MARKET	M6																		
MALAYSIA	I6	0-22	NO	YES	NO	YES	NO	NO	YES	CXP82832 -155Q	YES	NO	YES	SP B	DIMMER	P.CALL ≪	P.CALL ≫	YES	E11-0127-05
AUSTRALIA	X6																		
CHINA	C6																		
EUROPE	E4	2-71	YES			NO	YES			CXP82852 -136Q		YES	NO		PTY	(RDS) DISPLAY	TA/ NEWS	NO	

KRF-V6020E (X09-6242-71)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504, 507	D505, 510	IC51	IC52	R509	R517,526, 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
EUROPE	E5	2-71	YES	YES	NO	NO	YES	CXP82852 -136Q	YES	YES	NO	SP B	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05

KRF-V6020W (X09-6243-82)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504,507, 510	D505	IC51	IC52	R509	R517,526, 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
RUSSIA	Q6	3-82	YES	YES	NO	YES	NO	CXP82852 -136Q	YES	YES	NO	SP B	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05

KRF-V7020 (X09-6262-70)

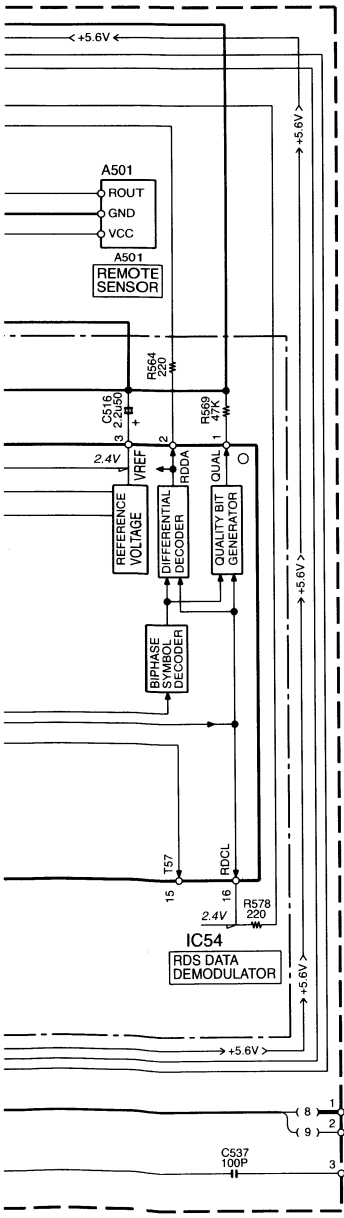
DESTINATION		UNIT No.	Ⓐ	C534	C535	D504, 507	D505, 510	IC51	IC52	R509	R517,526, 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
EUROPE	E7	2-70	YES	YES	NO	NO	YES	CXP82852 -136Q	YES	YES	NO	SP B	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05
U.K.	T7																

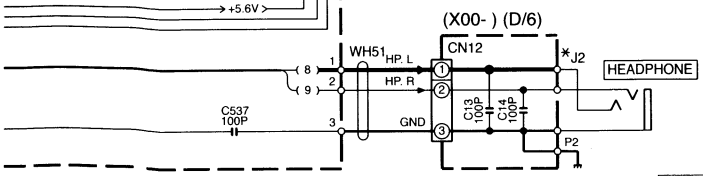
KRF-V7020E (X09-6262-70)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504, 507	D505, 510	IC51	IC52	R509	R517,526, 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
EUROPE	E8	2-70	YES	YES	NO	NO	YES	CXP82852 -136Q	YES	YES	NO	SP B	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05

KRF-V7020W (X09-6263-81)

DESTINATION		UNIT No.	Ⓐ	C534	C535	D504,507, 510	D505	IC51	IC52	R509	R517,526, 556	S501	S505	S511	S516	W209,501, 502	J2
COUNTRY	ABB.																
RUSSIA	Q7	3-81	YES	YES	NO	YES	NO	CXP82852 -136Q	YES	YES	NO	SP B	PTY	(RDS) DISPLAY	TA/ NEWS	NO	E11-0127-05



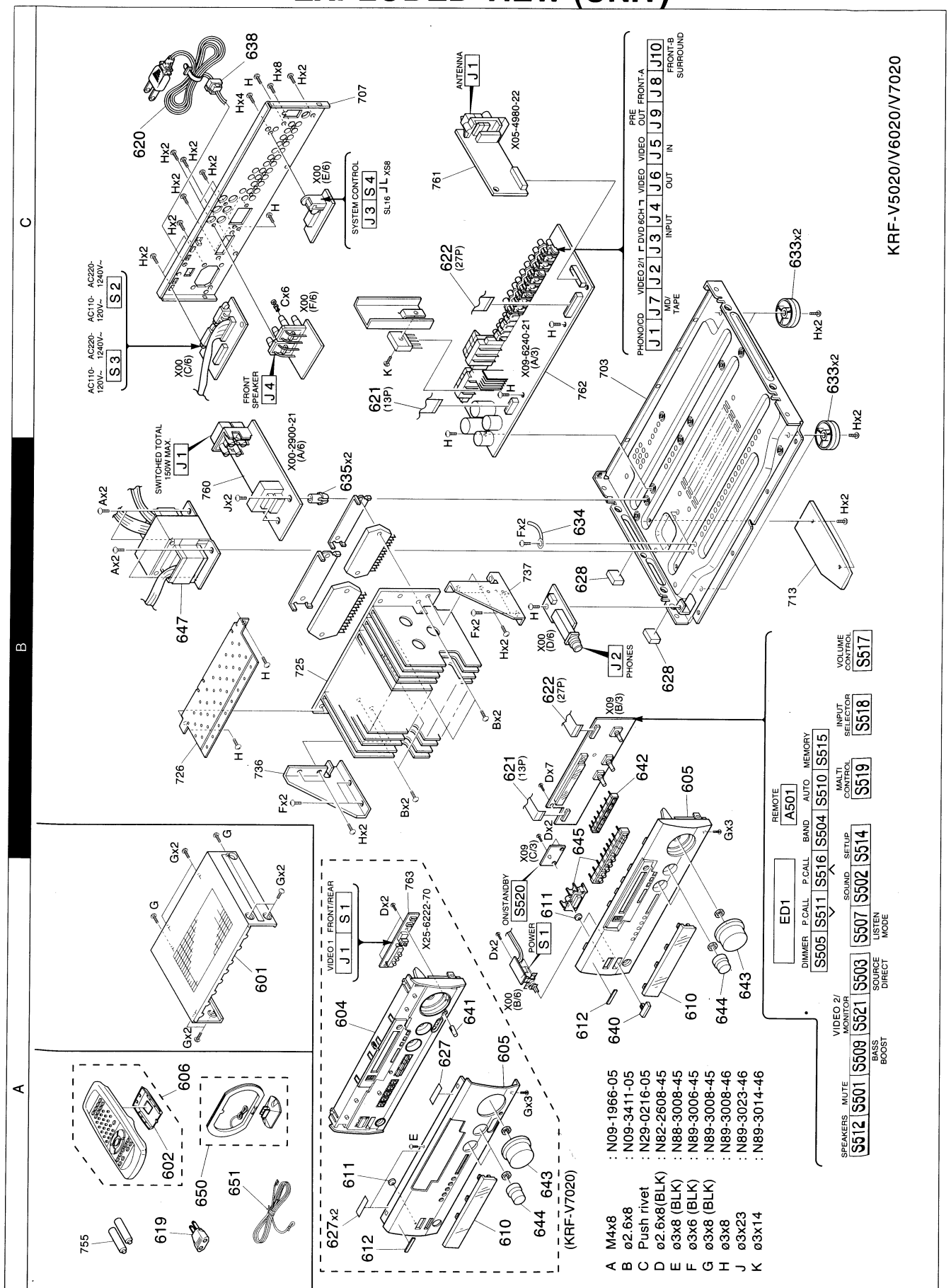


VR-305/306/355 (3/3)
KRF-V5010/V5020/V5020E/V5020W/V6020/V6020E/V6020W/V7020/V7020E/V7020W (3/3)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

* New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
KRF-V7020/V7020E/V7020W						
601	1A		A01-3686-01	METALLIC CABINET		
602	1A		A09-0366-08	BATTERY COVER		
604	1A	*	A22-1806-11	SUB PANEL		
605	1A	*	A60-1597-02	PANEL		
606	1A		A70-1275-05	REMOTE CONTROLLER (RC-R0508)		
610	2A		B10-3425-02	FRONT GLASS		
611	1A		B12-0341-04	INDICATOR		
612	1A		B43-0302-04	KENWOOD BADGE		
-			B46-0310-03	WARRANTY CARD		
-			B58-0945-03	CAUTION CARD	T7	
-			B58-0965-13	CAUTION CARD (T,X/PL)	T7	
-			B58-0966-13	CAUTION CARD (ELM/PL)	E8	
-			B58-1526-03	CAUTION CARD (P4,ORI,A4,1(Q)	Q7	
-			B58-1607-03	CAUTION CARD	E8	
-		*	B60-4148-00	INSTRUCTION MANUAL(EN)RC	E8T7Q7	
-			B60-4149-00	INSTRUCTION MANUAL(5-LANG)RC	E7	
-		*	B60-4150-00	INSTRUCTION MANUAL(PL/HU/CZ)RC	E8	
-		*	B60-4151-00	INSTRUCTION MANUAL(RU)RC	Q7	
-			B60-4155-00	INSTRUCTION MANUAL(EN)	E8T7Q7	
-			B60-4156-00	INSTRUCTION MANUAL(FR/NE)	E7	
-			B60-4157-00	INSTRUCTION MANUAL(IT/ES)	E7	
-			B60-4158-00	INSTRUCTION MANUAL(GE)	E7	
-			B60-4159-00	INSTRUCTION MANUAL(PL)	E8	
-			B60-4160-00	INSTRUCTION MANUAL(HU/CZ)	E8	
-			B60-4161-00	INSTRUCTION MANUAL(RU)	Q7	
⚠ 620	1C		E30-2592-15	AC POWER CORD	E7E8Q7	
⚠ 620	1C		E30-2721-05	AC POWER CORD	T7	
621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
⚠ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		
⚠ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E7E8Q7	
627	1A		G10-0481-04	NON-WOVEN FABRIC		
628	2B		G11-2416-04	CUSHION		
-			H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)		
-			H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	E7E8Q7	
-			H25-0391-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232)	T7	
-		*	H50-3233-04	ITEM CARTON CASE	E7T7	
-		*	H50-3235-04	ITEM CARTON CASE	E8	
-		*	H50-3236-04	ITEM CARTON CASE	Q7	
633	2C		J02-1168-03	FOOT GOLD		
634	2B		J19-2808-05	HOLDER		
635	1B		J19-3752-14	UNIT HOLDER		
⚠ 638	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0081-05	WIRE BAND		
-			J61-0307-05	WIRE BAND		
640	2A		K27-2275-04	KNOB (BUTTON) PUSH		
641	1A	*	K27-2342-04	KNOB (BUTTON) F.AUX		
642	2B		K29-7311-03	KNOB RDS		
643	2A		K29-7312-04	KNOB D54		

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
644	2A		K29-7313-04	KNOB D33		
⚠ 647	1B	*	L07-2699-05	POWER TRANSFORMER	E7E8T7	
⚠ 647	1B	*	L07-2700-05	POWER TRANSFORMER	Q7	
650	1A		T90-0833-05	LOOP ANTENNA		
651	1A		T90-0836-05	LEAD WIRE ANTENNA		
KRF-V6020/V6020E/V6020W						
601	1A	*	A01-3613-01	METALLIC CABINET	V6	
601	1A	*	A01-3687-01	METALLIC CABINET	C6X6I6	
601	1A	*	A01-3687-01	METALLIC CABINET	E4E5Q6	
601	1A	*	A01-3687-01	METALLIC CABINET	M6	
602	1A	*	A09-0366-08	BATTERY COVER	E4	
602	1A	*	A09-1123-08	BATTERY COVER	C6X6I6	
602	1A	*	A09-1123-08	BATTERY COVER	E5Q6M6	
602	1A	*	A09-1123-08	BATTERY COVER	V6	
605	2B	*	A60-1600-01	PANEL	E4E5Q6	
605	2B	*	A60-1601-01	PANEL	M6X6I6	
605	2B	*	A60-1602-01	PANEL	C6	
605	2B	*	A60-1663-01	PANEL	V6	
606	1A	*	A70-1264-05	REMOTE CONTROLLER (RC-R0711)	I6	
606	1A	*	A70-1264-05	REMOTE CONTROLLER (RC-R0711)	M6C6X6	
606	1A	*	A70-1264-05	REMOTE CONTROLLER (RC-R0711)	V6	
606	1A		A70-1265-05	REMOTE CONTROLLER (RC-R0710)	E5Q6	
606	1A	*	A70-1275-05	REMOTE CONTROLLER (RC-R0508)	E4	
610	2A		B10-2439-02	FRONT GLASS	V6	
610	2A		B10-3425-02	FRONT GLASS		
611	2A		B12-0334-14	INDICATOR	V6	
611	2A		B12-0341-04	INDICATOR		
612	2A		B43-0302-04	KENWOOD BADGE		
-			B46-0096-53	WARRANTY CARD	X6	
-			B46-0310-03	WARRANTY CARD	E4E5Q6	
-			B46-0343-03	WARRANTY CARD	C6	
-			B46-0344-03	WARRANTY CARD	V6	
-			B58-0965-13	CAUTION CARD (T,X/PL)	X6	
-			B58-0966-13	CAUTION CARD (ELM/P)	E4M6I6	
-			B58-1526-03	CAUTION CARD (P4,ORI,A4,1(Q)	Q6	
-			B58-1546-03	CAUTION CARD	C6V6	
-			B58-1607-03	CAUTION CARD	E5	
-		*	B60-4132-00	INSTRUCTION MANUAL(TC)	M6I6	
-		*	B60-4149-00	INSTRUCTION MANUAL(5-LAN)RC	E4	
-		*	B60-4152-00	INSTRUCTION MANUAL(EN)	M6X6I6	
-		*	B60-4155-00	INSTRUCTION MANUAL(EN)	E5Q6	
-		*	B60-4156-00	INSTRUCTION MANUAL(FR/NE)	E4	
-		*	B60-4157-00	INSTRUCTION MANUAL(IT/ES)	E4	
-		*	B60-4158-00	INSTRUCTION MANUAL(GE)	E4	
-		*	B60-4159-00	INSTRUCTION MANUAL(PL)	E5	
-		*	B60-4160-00	INSTRUCTION MANUAL(HU/CZ)	E5	
-		*	B60-4161-00	INSTRUCTION MANUAL(RU)	Q6	
-		*	B60-4162-00	INSTRUCTION MANUAL(SC)	C6	
⚠ 619	1A		E03-0115-05	AC PLUG ADAPTER	M6I6	
⚠ 620	1C		E30-2592-15	AC POWER CORD	E4E5Q6	
⚠ 620	1C		E30-2592-15	AC POWER CORD	M6I6	
⚠ 620	1C		E30-2717-05	AC POWER CORD	X6	
⚠ 620	1C		E30-2824-15	AC POWER CORD	V6	

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KRF-V5020/V6020/V7020/VR-305/306/355
PARTS LIST

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❸

	Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
⚠	620	1C		E30-2870-05	AC POWER CORD	C6	
	621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
	622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
⚠	F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	C6X6I6	
⚠	F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	E4E5Q6	
⚠	F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	M6	
⚠	F1			F50-0101-05	FUSE(5X20) (250V T3,15AL)	V6	
⚠	F2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	M6I6	
⚠	F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E4E5Q6	
	628	2B		G11-2416-04	CUSHION		
	-		✻	H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)	C6X6I6	
	-		✻	H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)	E4E5Q6	
	-		✻	H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)	M6	
	-		✻	H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)	C6X6I6	
	-		✻	H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)	E4E5Q6	
	-		✻	H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)	M6	
	-			H10-7554-02	POLYSTYRENE FOAMED FIXTURE	V6	
	-			H10-7555-02	POLYSTYRENE FOAMED FIXTURE	V6	
	-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
	-			H25-0391-04	PROTECTION BAG		
	-		✻	H50-3237-04	ITEM CARTON CASE	E4X6	
	-		✻	H50-3238-04	ITEM CARTON CASE	E5	
	-		✻	H50-3239-04	ITEM CARTON CASE	Q6	
	-		✻	H50-3240-04	ITEM CARTON CASE	M6I6	
	-		✻	H50-3241-04	ITEM CARTON CASE	C6	
	-		✻	H50-3259-04	ITEM CARTON CASE	V6	
	633	2C		J02-1167-03	FOOT	V6	
	633	2C		J02-1168-03	FOOT GOLD	C6X6I6	
	633	2C		J02-1168-03	FOOT GOLD	E4E5Q6	
	633	2C		J02-1168-03	FOOT GOLD	M6	
	634	2B		J19-2808-05	HOLDER		
	635	1B		J19-3752-14	UNIT HOLDER	C6X6I6	
	635	1B		J19-3752-14	UNIT HOLDER	E4E5Q6	
	635	1B		J19-3752-14	UNIT HOLDER	M6	
	635	1B		J19-5787-04	UNIT HOLDER	V6	
⚠	638	1C		J42-0083-05	POWER CORD BUSHING		
	-			J61-0307-05	WIRE BAND		
	640	2A		K27-2185-04	KNOB (BUTTON) PUSH	V6	
	640	2A		K27-2275-04	KNOB (BUTTON) PUSH	C6X6I6	
	640	2A		K27-2275-04	KNOB (BUTTON) PUSH	E4E5Q6	
	640	2A		K27-2275-04	KNOB (BUTTON) PUSH	M6	
	642	2B		K29-7310-03	KNOB TUNER	I6	
	642	2B		K29-7310-03	KNOB TUNER	M6C6X6	
	642	2B		K29-7311-03	KNOB RDS	E4E5Q6	
	642	2B		K29-7366-03	KNOB TUNER	V6	
	643	2A		K29-7306-14	KNOB D54	V6	
	643	2A		K29-7312-04	KNOB D54	C6X6I6	
	643	2A		K29-7312-04	KNOB D54	E4E5Q6	
	643	2A		K29-7312-04	KNOB D54	M6	
	644	2A		K29-7307-14	KNOB D33	V6	
	644	2A		K29-7313-04	KNOB D33	C6X6I6	
	644	2A		K29-7313-04	KNOB D33	E4E5Q6	

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❹

	Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
	644	2A		K29-7313-04	KNOB D33	M6	
	645	2B		K29-7309-02	KNOB POWER	C6X6I6	
	645	2B		K29-7309-02	KNOB POWER	E4E5Q6	
	645	2B		K29-7309-02	KNOB POWER	M6	
	645	2B		K29-7365-12	KNOB POWER	V6	
⚠	647	1B	✻	L07-2702-05	POWER TRANSFORMER	M6I6	
⚠	647	1B	✻	L07-2703-05	POWER TRANSFORMER	X6	
⚠	647	1B	✻	L07-2704-05	POWER TRANSFORMER	E4E5	
⚠	647	1B	✻	L07-2705-05	POWER TRANSFORMER	Q6C6	
⚠	647	1B		L07-2709-05	POWER TRANSFORMER	V6	
	650	1A		T90-0833-05	LOOP ANTENNA		
	651	1A		T90-0836-05	LEAD WIRE ANTENNA		
					KRF-V5020/V5020E/V5020W/V5020(S)		
	601	1A		A01-3650-01	METALLIC CABINET	E2	
	601	1A	✻	A01-3687-01	METALLIC CABINET	E1E3T5	
	601	1A	✻	A01-3687-01	METALLIC CABINET	Q5Y5M5	
	601	1A	✻	A01-3687-01	METALLIC CABINET	X5I5	
	602	1A	✻	A09-1123-08	BATTERY COVER		
	605	2B	✻	A60-1598-01	PANEL	E2	
	605	2B	✻	A60-1604-01	PANEL	Y5	
	605	2B	✻	A60-1605-01	PANEL	M5X5I5	
	605	2B	✻	A60-1606-01	PANEL	E1E3T5	
	605	2B	✻	A60-1606-01	PANEL	Q5	
	606	1A	✻	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	I5	
	606	1A	✻	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	Y5M5X5	
	606	1A	✻	A70-1265-05	REMOTE CONTROLLER(RC-R0710)	E1E2E3	
	606	1A	✻	A70-1265-05	REMOTE CONTROLLER(RC-R0710)	T5Q5	
	610	2A		B10-3425-02	FRONT GLASS		
	611	2A		B12-0341-04	INDICATOR		
	612	2A		B43-0302-04	KENWOOD BADGE		
	-			B46-0096-53	WARRANTY CARD	X5	
	-			B46-0310-03	WARRANTY CARD	E1E2E3	
	-			B46-0310-03	WARRANTY CARD	T5Q5	
	-			B46-0330-03	WARRANTY CARD	Y5	
	-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y5	
	-			B58-0945-03	CAUTION CARD	T5	
	-			B58-0964-13	CAUTION CARD (UL)	Y5	
	-			B58-0965-13	CAUTION CARD (T,X/PL)	T5X5	
	-			B58-0966-13	CAUTION CARD (ELM/PL)	E1E2M5	
	-			B58-0966-13	CAUTION CARD (ELM/PL)	I5	
	-			B58-1526-03	CAUTION CARD (P4,ORI,A4,1(Q)	Q5	
	-			B58-1607-03	CAUTION CARD	E3	
	-			B59-1104-00	SERVICE DIRECTORY	Y5	
	-			B60-4132-00	INSTRUCTION MANUAL(TC)	I5	
	-			B60-4152-00	INSTRUCTION MANUAL(EN)	I5	
	-			B60-4152-00	INSTRUCTION MANUAL(EN)	Y1M5X5	
	-		✻	B60-4154-00	INSTRUCTION MANUAL(ES/TC)		M5
	-			B60-4155-00	INSTRUCTION MANUAL(EN)	E3T5Q5	
	-			B60-4156-00	INSTRUCTION MANUAL(FR/EN)	E1E2	
	-			B60-4157-00	INSTRUCTION MANUAL(IT/ES)	E1E2	
	-			B60-4158-00	INSTRUCTION MANUAL(GE)	E1E2	
	-			B60-4159-00	INSTRUCTION MANUAL(PL)	E3	
	-			B60-4160-00	INSTRUCTION MANUAL(HU/CZ)	E3	
	-			B60-4161-00	INSTRUCTION MANUAL(RU)	Q5	

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⚠ 619	1A		E03-0115-05	AC PLUG ADAPTER	M5I5	
⚠ 620	1C		E30-2592-15	AC POWER CORD	E1E2E3	
⚠ 620	1C		E30-2592-15	AC POWER CORD	Q5M5I5	
⚠ 620	1C		E30-2605-05	AC POWER CORD	Y5	
⚠ 620	1C		E30-2717-05	AC POWER CORD	X5	
⚠ 620	1C		E30-2721-05	AC POWER CORD	T5	
621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
⚠ F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)		
⚠ F2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	Y5M5I5	
⚠ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E1E2E3	
⚠ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	Q5	
628	2B		G11-2416-04	CUSHION		
-			H10-7552-02	POLYSTYRENE FOAMED FIXTURE(L)		
-			H10-7553-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	E1E2E3	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	Q5Y5M5	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	X5I5	
-			H25-0391-04	PROTECTION BAG		
-			H25-0651-04	PROTECTION BAG (0232)	T5	
-		*	H50-3243-04	ITEM CARTON CASE	E1T5Y5	
-		*	H50-3243-04	ITEM CARTON CASE	X5	
-		*	H50-3244-04	ITEM CARTON CASE	M5I5	
-		*	H50-3245-04	ITEM CARTON CASE	E3	
-		*	H50-3246-04	ITEM CARTON CASE	Q5	
-		*	H50-3257-04	ITEM CARTON CASE	E2	
633	2C		J02-1168-03	FOOT GOLD	E1E2E3	
633	2C		J02-1168-03	FOOT GOLD	T5Q5M5	
633	2C		J02-1168-03	FOOT GOLD	X5I5	
633	2C		J02-1407-03	FOOT TIN (D=46,H=14.5,T)	Y5	
634	2B		J19-2808-05	HOLDER		
635	1B		J19-3752-14	UNIT HOLDER		
⚠ 638	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	E1E3T5	
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	I5	
640	2A		K27-2275-04	KNOB (BUTTON) PUSH	Q5M5X5	
640	2A		K27-2293-04	KNOB (BUTTON) PUSH,GOLD	Y5	
640	2A		K27-2312-04	KNOB (BUTTON) PUSH,SILVER	E2	
642	2B		K29-7310-03	KNOB TUNER	M5X5I5	
642	2B		K29-7311-03	KNOB RDS	E1E3T5	
642	2B		K29-7311-03	KNOB RDS	Q5	
642	2B		K29-7323-03	KNOB TUNER,GOLD	Y5	
642	2B		K29-7428-03	KNOB TUNER,SILVER	E2	
643	2A		K29-7312-04	KNOB D54	E1E3T5	
643	2A		K29-7312-04	KNOB D54	I5	
643	2A		K29-7312-04	KNOB D54	Q5M5X5	
643	2A		K29-7325-04	KNOB D54,GOLD	Y5	
643	2A		K29-7429-04	KNOB D54,SILVER	E2	
644	2A		K29-7313-04	KNOB D33	E1E3T5	
644	2A		K29-7313-04	KNOB D33	I5	
644	2A		K29-7313-04	KNOB D33	Q5M5X5	
644	2A		K29-7326-04	KNOB D33,GOLD	Y5	
644	2A		K29-7430-04	KNOB D33,SILVER	E2	

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645	2B		K29-7309-02	KNOB POWER	E1E3T5	
645	2B		K29-7309-02	KNOB POWER	I5	
645	2B		K29-7309-02	KNOB POWER	Q5M5X5	
645	2B		K29-7321-02	KNOB POWER,GOLD	Y5	
645	2B		K29-7427-02	KNOB POWER,SILVER	E2	
⚠ 647	1B		L07-2702-05	POWER TRANSFORMER	Y5M5I5	
⚠ 647	1B		L07-2703-05	POWER TRANSFORMER	X5	
⚠ 647	1B		L07-2704-05	POWER TRANSFORMER	E1E2E3	
⚠ 647	1B		L07-2704-05	POWER TRANSFORMER	T5	
⚠ 647	1B		L07-2705-05	POWER TRANSFORMER	Q5	
650	1A		T90-0833-05	LOOP ANTENNA		
651	1A		T90-0836-05	LEAD WIRE ANTENNA		

VR-305/306/355

601	1A		A01-3533-01	METALLIC CABINET		
602	1A		A09-0366-08	BATTERY COVER	K3P3	
602	1A	*	A09-1123-08	BATTERY COVER	K1P1K2	
602	1A	*	A09-1123-08	BATTERY COVER	P2	
605	1B	*	A60-1596-01	PANEL	K1P1	
605	1B	*	A60-1603-01	PANEL	K2P2	
605	1B	*	A60-1607-01	PANEL	K3P3	
606	1A	*	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	K1P1K1	
606	1A	*	A70-1264-05	REMOTE CONTROLLER(RC-R0711)	P2	
606	1A	*	A70-1271-05	REMOTE CONTROLLER(RC-R0608)	K3P3	
610	2A		B10-2439-02	FRONT GLASS		
611	2A		B12-0334-14	INDICATOR		
612	2A		B43-0302-04	KENWOOD BADGE		
-			B46-0197-00	QUESTIONNAIRE CARD	K1K2K3	
-			B46-0330-03	WARRANTY CARD	K1K2K3	
-			B46-0336-03	WARRANTY CARD	P1P2P3	
-			B58-0964-13	CAUTION CARD (UL)	K1K2K3	
-			B58-0967-03	CAUTION CARD (P/PL)	P1P2P3	
-		*	B60-4144-00	INSTRUCTION MANUAL(EN)RC	K3P3	
-		*	B60-4145-00	INSTRUCTION MANUAL(FR)RC	P3	
-		*	B60-4152-00	INSTRUCTION MANUAL(EN)		
-		*	B60-4153-00	INSTRUCTION MANUAL(FR)	P1P2P3	
⚠ 620	1C	*	E30-2909-05	AC POWER CORD		
621	2B, 1C		E35-2017-05	FLAT CABLE 13P		
622	2B, 1C		E35-2042-05	FLAT CABLE 27P		
⚠ F1			F50-0077-05	FUSE(5X20)		
628	2B	*	G11-2415-04	CUSHION		
-		*	H10-7554-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-7555-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-0391-04	PROTECTION BAG		
-		*	H50-3232-04	ITEM CARTON CASE	K1P1	
-		*	H50-3242-04	ITEM CARTON CASE	K2P2	
-		*	H50-3247-04	ITEM CARTON CASE	K3P3	
633	2C		J02-1405-03	FOOT (D=46,H=14.5,T)		
634	2B		J19-2808-05	HOLDER		
635	1B		J19-5787-04	UNIT HOLDER		
⚠ 638	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		

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640	2A		K29-6939-12	KNOB		
642	2B		K29-6898-03	KNOB TUNER		
643	2A		K29-6880-04	KNOB D54		
644	2A		K29-6881-04	KNOB D33		
⚠ 647	1B	*	L07-2697-05	POWER TRANSFORMER	K1P1	
⚠ 647	1B	*	L07-2701-05	POWER TRANSFORMER	K2P2K3	
⚠ 647	1B	*	L07-2701-05	POWER TRANSFORMER	P3	
650	1A		T90-0833-05	LOOP ANTENNA		
651	1A		T90-0836-05	LEAD WIRE ANTENNA		

POWER SUPPLY (X00-2880-10/X00-2890-10/X00-2902-70)

C5, 6			CK45FF1H103Z	CERAMIC 0.010UF Z		
C7			CE04DW1E331M	ELECTRO 330UF 25WV		
C8			CK45FB1H102K	CERAMIC 1000PF K		
C9			CK45FF1H103Z	CERAMIC 0.010UF Z		
C10			CE04KW1C470M	ELECTRO 47UF 16WV		
C11			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C13, 14			CC45FSL1H101J	CERAMIC 100PF J	KPXCET	
C13, 14			CC45FSL1H101J	CERAMIC 100PF J	QMIY	
C13, 14			CC45FSL1H151J	CERAMIC 150PF J	V	
C21, 22			CC45FSL1H221J	CERAMIC 220PF J		
C23~25			CK45FF1H472Z	CERAMIC 4700PF Z	67	
C26			C91-1488-05	MF 6800PF 250VAC	V	
CN1			E40-4245-05	PIN ASSY		
CN2			E40-4245-05	PIN ASSY	EQXTCV	
CN2			E40-4245-05	PIN ASSY	KP	
CN3			E40-4245-05	PIN ASSY	EQXTCV	
CN3			E40-4245-05	PIN ASSY	YMI	
CN4			E40-8197-05	SOCKET FOR PIN ASSY		
CN11			E40-4281-05	PIN ASSY	YMI	
CN12, 13			E40-3247-05	PIN ASSY		
CN14			E40-4101-05	PIN ASSY	67	
⚠ J1			E03-0149-05	AC OUTLET	EQMI	
⚠ J1			E03-0310-05	AC OUTLET	T	
⚠ J1			E03-0325-05	AC OUTLET	X	
⚠ J1			E03-0361-05	AC OUTLET	CV	
J2			E11-0127-05	PHONE JACK (3P)	ETQMIY	
J2			E11-0127-05	PHONE JACK (3P)	XC	
J2			E11-0295-05	PHONE JACK (3P)	KPV	
J3			E11-0293-05	MINIATURE PHONE JACK(2P)	ETQMIYXC	
J3			E11-0347-05	MINIATURE PHONE JACK(2P)	KPV	
J4			E70-0100-05	SCREW TERMINAL BOARD	67	
CN5, 6			J13-0075-05	FUSE CLIP		
CN7, 8			J13-0075-05	FUSE CLIP	YMI	
CN9, 10			J13-0075-05	FUSE CLIP	EQ	
E1			J11-0808-05	WIRE CLAMPER		
⚠ T1			L07-2127-05	POWER TRANSFORMER	KP	
⚠ T1			L07-2129-05	POWER TRANSFORMER	V	
⚠ T1			L07-2568-05	POWER TRANSFORMER	YMI	
⚠ T1			L07-2569-05	POWER TRANSFORMER	EQXTC	
⚠ R1			R92-1844-05	CARBON 3.3M J 1/2W	KP	
⚠ K1			S76-0070-05	MAGNETIC RELAY		
⚠ S1			S68-0088-05	PUSH SWITCH	V	

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⚠ S1			S68-0100-05	PUSH SWITCH	EQXTC	
⚠ S1			S68-0100-05	PUSH SWITCH	YMI	
⚠ S2, 3			S62-0001-05	SLIDE SWITCH	YMI	
S4			S62-0034-05	SLIDE SWITCH		
⚠ D1~4			S5688B	DIODE		
⚠ D1~4			1SR139-400	DIODE		
D5			HZS6.2N(B2)	ZENER DIODE		
D5			MTZJ6.2(B)	ZENER DIODE		
D5			RD6.2ES(B2)	ZENER DIODE		
⚠ D6, 7			HSS104A	DIODE		
⚠ D6, 7			1SS133	DIODE		
⚠ D8			HZS2.7N(B2)	ZENER DIODE		
⚠ D8			MTZJ2.7(B)	ZENER DIODE		
⚠ D8			RD2.7ES(B2)	ZENER DIODE		
D9			HSS104A	DIODE		
D9			1SS133	DIODE		
⚠ Q1			2SC3940A(R,S)	TRANSISTOR		
Q2			2SC2003(L,K)	TRANSISTOR		

TUNER (X05-4982-71/X05-5050-10/X05-5062-11)

C1			CK73FB1H223K	CHIP C 0.022UF K		
C2			CK73FB1H103K	CHIP C 0.010UF K	EQT	
C3			CK73FB1H103K	CHIP C 0.010UF K		
C5, 6			CK73FB1H103K	CHIP C 0.010UF K		
C7			CE04LW1C470M	ELECTRO 47UF 16WV		
C8			CK73EB1H103K	CHIP C 0.010UF K	KP	
C8			CK73EB1H103K	CHIP C 0.010UF K	MCXYIV	
C10			CE04LW1C470M	ELECTRO 47UF 16WV		
C11, 12			CK73FB1H473K	CHIP C 0.047UF K		
C14			CE04LW1C100M	ELECTRO 10UF 16WV		
C15			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C16			C90-3251-05	ELECTRO 0.47UF 50WV		
C17			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C18			CC73FCH1H470J	CHIP C 47PF J		
C19			C90-3217-05	ELECTRO 10UF 10WV		
C20			CK73FB1H473K	CHIP C 0.047UF K		
C21			C90-3241-05	ELECTRO 3.3UF 35WV		
C22			CK73FB1H473K	CHIP C 0.047UF K		
C23			CE04LW1C100M	ELECTRO 10UF 16WV		
C24			CK73FB1H331K	CHIP C 330PF K		
C25			CC73FCH1H181J	CHIP C 180PF J	EQT	
C25			CC73FCH1H471J	CHIP C 470PF J	KP	
C25			CC73FCH1H471J	CHIP C 470PF J	MCXYIV	
C26			CK73FB1H183K	CHIP C 0.018UF K	EQT	
C26			CK73FB1H223K	CHIP C 0.022UF K	KP	
C26			CK73FB1H223K	CHIP C 0.022UF K	MCXYIV	
C27			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C28, 29			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C30, 31			CK73FB1H223K	CHIP C 0.022UF K	EQXTMC	
C30, 31			CK73FB1H223K	CHIP C 0.022UF K	YIV	
C30, 31			CK73FB1H333K	CHIP C 0.033UF K	KP	
C32			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C33, 34			CK73FB1H103K	CHIP C 0.010UF K	MCIYV	
C35			CK73FB1H332K	CHIP C 3300PF K	KP	
C35			CK73FB1H332K	CHIP C 3300PF K	MCXYIV	

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C36			CK73FB1H103K	CHIP C	0.010UF	K		
C37, 38			CE04LW1C100M	ELECTRO	10UF	16WV		
C39			CC73FCH1H060D	CHIP C	6.0PF	D		
C40			CC73FCH1H020C	CHIP C	2.0PF	C		
C41			CC73FCH1H220J	CHIP C	22PF	J		
C42			CC73FCH1H120J	CHIP C	12PF	J	EQTMCX	
C42			CC73FCH1H120J	CHIP C	12PF	J	YI	
C42			CC73FCH1H270J	CHIP C	27PF	J	KPV	
C43			CC73FCH1H100D	CHIP C	10PF	D	EQTMCX	
C43			CC73FCH1H100D	CHIP C	10PF	D	YI	
C43			CC73FCH1H220J	CHIP C	22PF	J	KPV	
C44			CK73FB1H471K	CHIP C	470PF	K		
C45			CC73FCH1H220J	CHIP C	22PF	J		
C46			CE04LW1C100M	ELECTRO	10UF	16WV		
C47			CK73FB1H102K	CHIP C	1000PF	K		
C48			CE04LW1C470M	ELECTRO	47UF	16WV		
C49			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C50			CC73FSL1H101J	CHIP C	100PF	J		
C51			CK73FB1H471K	CHIP C	470PF	K		
C52			CC73FSL1H101J	CHIP C	100PF	J		
C70, 71			CK73FB1H822K	CHIP C	8200PF	K	EQT	
C72			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C73			CE04LW1C470M	ELECTRO	47UF	16WV		
C74			CK73FB1H102K	CHIP C	1000PF	K	KP	
C75			CC73FCH1H040C	CHIP C	4.0PF	C		
C76			CC73FCH1H470J	CHIP C	47PF	J		
C78			CK73FB1H223K	CHIP C	0.022UF	K		
C79, 80			CK73FB1H472K	CHIP C	4700PF	K	EQT	
C81			CK73FF1C105Z	CHIP C	1.0UF	Z		
C82			CK73FB1H103K	CHIP C	0.010UF	K	EQT	
C83			CC73FSL1H101J	CHIP C	100PF	J		
C84, 85			CK73FB1H223K	CHIP C	0.022UF	K		
C86			CK73FB1H471K	CHIP C	470PF	K		
C88			CK73FB1H332K	CHIP C	3300PF	K		
C89, 90			CK73FB1H472K	CHIP C	4700PF	K	KP	
C89, 90			CK73FB1H472K	CHIP C	4700PF	K	MCXYIV	
C91			CK73FF1C105Z	CHIP C	1.0UF	Z		
CN1			E40-9831-05	SOCKET FOR PIN ASSY				
CN2			E40-4871-05	PIN ASSY			EQT	
J1			E20-0321-05	LOCK TERMINAL BOARD(2P,F)			EQTMCX	
J1			E20-0321-05	LOCK TERMINAL BOARD(2P,F)			YI	
J1			E70-0052-05	LOCK TERMINAL BOARD			EQTMCX	
J1			E70-0052-05	LOCK TERMINAL BOARD			YI	
J1			E70-0080-05	LOCK TERMINAL BOARD			KPV	
CF1, 2			L72-0531-05	CERAMIC FILTER			MCXYIV	
CF1, 2			L72-0536-05	CERAMIC FILTER			EQT	
CF1, 2			L72-0596-05	CERAMIC FILTER			KP	
CF3			L72-0607-05	CERAMIC FILTER			KP	
CF3			L72-0607-05	CERAMIC FILTER			MCXYIV	
L1			L39-1366-05	COMBINATION COIL				
L2			L40-1091-17	SMALL FIXED INDUCTOR(1UH)				
L3			L30-0911-05	AM IFT				
L4			L30-0950-05	FM IFT			EQT	
L5			L30-0951-05	FM IFT			EQT	

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L6, 7			L79-1239-05	LC FILTER				EQT	
L9			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				EQXTMC	
L9			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				YI	
L9			L40-1001-82	SMALL FIXED INDUCTOR(10UH)				KPV	
X1			L77-2187-05	CRYSTAL RESONATOR				KPV	
X1			L77-2232-05	CRYSTAL RESONATOR				EQTMXC	
X1			L77-2232-05	CRYSTAL RESONATOR				YI	
R1			RK73FB2A101J	CHIP R	100	J	1/10W		
R4			RK73FB2A681J	CHIP R	680	J	1/10W		
R5			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R6			RK73FB2A221J	CHIP R	220	J	1/10W		
R7			RK73FB2A821J	CHIP R	820	J	1/10W		
R8			RK73FB2A100J	CHIP R	10	J	1/10W	EQT	
R8			RK73FB2A330J	CHIP R	33	J	1/10W	KP	
R8			RK73FB2A330J	CHIP R	33	J	1/10W	MCXYIV	
R9			RK73FB2A391J	CHIP R	390	J	1/10W		
R10			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R11			RK73FB2A220J	CHIP R	22	J	1/10W	EQT	
R11			RK73FB2A330J	CHIP R	33	J	1/10W	KP	
R11			RK73FB2A330J	CHIP R	33	J	1/10W	MCXYIV	
R12			RK73FB2A101J	CHIP R	100	J	1/10W		
R14			RK73FB2A101J	CHIP R	100	J	1/10W	EQT	
R14			RK73FB2A271J	CHIP R	270	J	1/10W	KP	
R14			RK73FB2A271J	CHIP R	270	J	1/10W	MCXYIV	
R15			RK73FB2A333J	CHIP R	33K	J	1/10W	EQT	
R16			RK73FB2A220J	CHIP R	22	J	1/10W		
R17			RK73FB2A362J	CHIP R	3.6K	J	1/10W		
R18			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R19			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R20			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R23			RK73FB2A153J	CHIP R	15K	J	1/10W	EQT	
R23			RK73FB2A332J	CHIP R	3.3K	J	1/10W	KP	
R23			RK73FB2A332J	CHIP R	3.3K	J	1/10W	MCXYIV	
R25			RK73FB2A183J	CHIP R	18K	J	1/10W	KP	
R25			RK73FB2A183J	CHIP R	18K	J	1/10W	MCXYIV	
R25			RK73FB2A273J	CHIP R	27K	J	1/10W	EQT	
R27, 28			RK73FB2A432J	CHIP R	4.3K	J	1/10W	EQT	
R27, 28			RK73FB2A752J	CHIP R	7.5K	J	1/10W	KP	
R27, 28			RK73FB2A752J	CHIP R	7.5K	J	1/10W	MCXYIV	
R30			RK73FB2A561J	CHIP R	560	J	1/10W	MCIYV	
R31			RK73FB2A473J	CHIP R	47K	J	1/10W	MCIYV	
R32			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KP	
R32			RK73FB2A272J	CHIP R	2.7K	J	1/10W	MCXYIV	
R33, 34			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R35			RK73FB2A101J	CHIP R	100	J	1/10W	EQT	
R36			RK73FB2A102J	CHIP R	1.0K	J	1/10W	EQT	
R37			RK73FB2A392J	CHIP R	3.9K	J	1/10W	EQT	
R38			RK73FB2A102J	CHIP R	1.0K	J	1/10W	EQT	
R39			RK73FB2A103J	CHIP R	10K	J	1/10W	EQT	
R42			RK73FB2A103J	CHIP R	10K	J	1/10W		
R43			RK73FB2A221J	CHIP R	220	J	1/10W		
⚠ R44			RD14NB2E271J	RD	270	J	1/4W		
R45			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R46			RK73FB2A102J	CHIP R	1.0K	J	1/10W		

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R47			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R48			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R49			RK73FB2A103J	CHIP R	10K	J	1/10W		
⚠ R50			RD14NB2E471J	RD	470	J	1/4W		
R51			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R52			RK73FB2A101J	CHIP R	100	J	1/10W		
R53			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R54			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R55			RK73FB2A333J	CHIP R	33K	J	1/10W		
R56, 57			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R58			RK73FB2A123J	CHIP R	12K	J	1/10W		
R59			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R72, 73			RK73FB2A153J	CHIP R	15K	J	1/10W	KP	
R72, 73			RK73FB2A392J	CHIP R	3.9K	J	1/10W	EQT	
R72, 73			RK73FB2A822J	CHIP R	8.2K	J	1/10W	MCXYIV	
R74			RK73FB2A473J	CHIP R	47K	J	1/10W		
R75			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R76			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R78			RK73FB2A821J	CHIP R	820	J	1/10W		
R79			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R80			RK73FB2A223J	CHIP R	22K	J	1/10W	EQT	
⚠ R81			RS14KB3A151J	FL-PROOF RS	150	J	1W		
R82			RK73FB2A272J	CHIP R	2.7K	J	1/10W	EQT	
R83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R85~87			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R88			RK73FB2A563J	CHIP R	56K	J	1/10W		
R89			RK73FB2A333J	CHIP R	33K	J	1/10W		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR					
W51, 52			R92-0670-05	CHIP R	0 OHM				
W53			R92-0670-05	CHIP R	0 OHM			EQTMXC	
W53			R92-0670-05	CHIP R	0 OHM			YI	
W54, 55			R92-0670-05	CHIP R	0 OHM				
W56			R92-0670-05	CHIP R	0 OHM			MCIYV	
W59			R92-0670-05	CHIP R	0 OHM				
W60			R92-0670-05	CHIP R	0 OHM			EQT	
W62			R92-0670-05	CHIP R	0 OHM				
W80			R92-0679-05	CHIP R	0 OHM				
W82, 83			R92-0679-05	CHIP R	0 OHM			KP	
W82, 83			R92-0679-05	CHIP R	0 OHM			MCXYIV	
W84, 85			R92-0679-05	CHIP R	0 OHM				
D1			DA204U	DIODE					
D1			MA143A	DIODE					
D1			1SS302	DIODE					
D3			HZS8.2N(B2)	ZENER DIODE					
D3			MTZJ8.2(B)	ZENER DIODE					
D3			RD8.2ES(B2)	ZENER DIODE					
D4			HZS5.1N(B2)	ZENER DIODE					
D4			MTZJ5.1(B)	ZENER DIODE					
D4			RD5.1ES(B2)	ZENER DIODE					
D5			HZS2.7N(B2)	ZENER DIODE					
D5			MTZJ2.7(B)	ZENER DIODE					
D5			RD2.7ES(B2)	ZENER DIODE					
D8			MA111	DIODE					

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D9			HZS3.3N(B2)	ZENER DIODE					
D9			MTZJ3.3(B)	ZENER DIODE					
D9			RD3.3ES(B2)	ZENER DIODE					
D11			MA111	DIODE				EQT	
D13			MA111	DIODE					
IC1			LA1837	ANALOGUE IC				EQT	
IC1			LA1838	ANALOGUE IC				KP	
IC1			LA1838	ANALOGUE IC				MCXYIV	
IC2			LC72131	MOS-IC					
Q1			2SC4081(R,S)	TRANSISTOR					
Q1			2SD1819A(Q,R)	TRANSISTOR					
Q2			2SA1576A(R,S)	TRANSISTOR					
Q2			2SB1218A(Q,R)	TRANSISTOR					
Q3, 4			2SC4081(R,S)	TRANSISTOR				MCIYV	
Q3, 4			2SD1819A(Q,R)	TRANSISTOR				MCIYV	
Q6, 7			2SC4081(R,S)	TRANSISTOR				EQT	
Q6, 7			2SD1819A(Q,R)	TRANSISTOR				EQT	
Q10, 11			2SD1757K	TRANSISTOR					
Q12			2SA1576A(R,S)	TRANSISTOR					
Q12			2SB1218A(Q,R)	TRANSISTOR					
Q14			2SA1576A(R,S)	TRANSISTOR					
Q14			2SB1218A(Q,R)	TRANSISTOR					
A1			W02-2584-05	FM FRONT-END ASSY				ET	
A1			W02-2586-05	FM FRONT-END ASSY				Q	
A1			W02-2622-05	FM FRONT-END ASSY				KP	
A1			W02-2622-05	FM FRONT-END ASSY				MCXYIV	

POWER (X09-6242-70/X09-6262-70/X09-6352-10/X09-6300-10)

D527			B30-2545-05	LED(RED3(160))					
C1, 2			CC73FSL1H220J	CHIP C	22PF	J			
C3, 4			CE04KW1C100M	ELECTRO	10UF	16WV			
C5, 6			CC73FSL1H820J	CHIP C	82PF	J			
C7, 8			CE04KW1A470M	ELECTRO	47UF	10WV			
C11, 12			CQ93FMG1H123J	MYLAR	0.012UF	J			
C13, 14			CQ93FMG1H332J	MYLAR	3300PF	J			
C15, 16			CE04KW1V4R7M	ELECTRO	4.7UF	35WV			
C17			CC45FSL1H101J	CERAMIC	100PF	J			
C18			CK45FF1H103Z	CERAMIC	0.010UF	Z			
C19~36			CC73FSL1H221J	CHIP C	220PF	J			
C37~41			CC73FCH1H470J	CHIP C	47PF	J			
C42, 43			CK73FB1H103K	CHIP C	0.010UF	K			
C44			CC73FSL1H471J	CHIP C	470PF	J			
C45, 46			CE04KW1H2R2M	ELECTRO	2.2UF	50WV			
C47, 48			CC73FSL1H680J	CHIP C	68PF	J			
C51			CK45FB1H391K	CERAMIC	390PF	K			
C52			CK45FF1H103Z	CERAMIC	0.010UF	Z			
C53, 54			CC73FSL1H101J	CHIP C	100PF	J			
C55, 56			CE04KW1C220M	ELECTRO	22UF	16WV			
C61~63			CE04KW1C100M	ELECTRO	10UF	16WV			
C93, 94			CK45FF1H103Z	CERAMIC	0.010UF	Z			
C95			CC73FSL1H471J	CHIP C	470PF	J			
C98, 99			CE04KW1A101M	ELECTRO	100UF	10WV			
C100, 101			CE04KW1C100M	ELECTRO	10UF	16WV			
C104, 105			CK73FB1H153K	CHIP C	0.015UF	K			

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C106, 107			CE04KW1HR33M	ELECTRO	0.33UF	50WV		
C108, 109			CQ93FMG1H822J	MYLAR	8200PF	J		
C110			CC73FSL1H471J	CHIP C	470PF	J		
C111~118			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C119, 120			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C121			CC73FSL1H221J	CHIP C	220PF	J		
C122			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C123~126			CC73FSL1H101J	CHIP C	100PF	J		
C127, 128			CE04KW1C100M	ELECTRO	10UF	16WV		
C129			CE04KW1C101M	ELECTRO	100UF	16WV		
C130			CE04KW1C470M	ELECTRO	47UF	16WV		
C131~134			CE04KW1C100M	ELECTRO	10UF	16WV		
C135			CK73FB1C104K	CHIP C	0.10UF	K		
C136			CK73FB1H562K	CHIP C	5600PF	K		
C137			CE04KW1C100M	ELECTRO	10UF	16WV		
C138			CE04KW1E221M	ELECTRO	220UF	25WV		
C139			CE04KW1C220M	ELECTRO	22UF	16WV		
C140, 141			CK73FF1E104Z	CHIP C	0.10UF	Z		
C142			CK73FB1H681K	CHIP C	680PF	K		
C143, 144			CK73FF1E104Z	CHIP C	0.10UF	Z		
C145			CK73FB1H681K	CHIP C	680PF	K		
C146			CQ93FMG1H104J	MYLAR	0.10UF	J		
C147, 148			CQ93FMG1H223J	MYLAR	0.022UF	J		
C149, 150			CK73FB1C104K	CHIP C	0.10UF	K		
C151, 152			CQ93FMG1H473J	MYLAR	0.047UF	J		
C153			CK73FB1C104K	CHIP C	0.10UF	K		
C154			CK73FF1C224Z	CHIP C	0.22UF	Z		
C155			CQ93FMG1H224J	MYLAR	0.22UF	J		
C156, 157			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C158			CQ93FMG1H224J	MYLAR	0.22UF	J		
C159			CK73FF1C224Z	CHIP C	0.22UF	Z		
C160			CK73FF1C105Z	CHIP C	1.0UF	Z		
C161			CK73EB1E473K	CHIP C	0.047UF	K		
C162			CK73FB1H562K	CHIP C	5600PF	K		
C163			CK73FB1H221K	CHIP C	220PF	K		
C164			CK73FB1H103K	CHIP C	0.010UF	K		
C165			CK73FB1C104K	CHIP C	0.10UF	K		
C169			CK73FB1H182K	CHIP C	1800PF	K		
C170			CK73FB1H103K	CHIP C	0.010UF	K		
C171			CQ93FMG1H683J	MYLAR	0.068UF	J		
C172, 173			CQ93FMG1H104J	MYLAR	0.10UF	J		
C174			CQ93FMG1H683J	MYLAR	0.068UF	J		
C175			CQ93FMG1H182J	MYLAR	1800PF	J		
C176			CK73FB1H103K	CHIP C	0.010UF	K		
C177			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C178			CE04KW1C220M	ELECTRO	22UF	16WV		
C181, 182			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C183, 184			CC73FSL1H471J	CHIP C	470PF	J		
C193, 194			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C195, 196			CC73FSL1H471J	CHIP C	470PF	J		
C197			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C203			CC45FSL1H101J	CERAMIC	100PF	J		
C204			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C205			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C206			CK45FB2H392K	CERAMIC	3900PF	K		

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C207, 208			CC73FSL1H471J	CHIP C	470PF	J		
C212			CC73FSL1H101J	CHIP C	100PF	J		
C214			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C215			CE04HW1E220M	NP-ELEC	22UF	25WV		
C216, 217			CK73FB1H221K	CHIP C	220PF	K		
C218, 219			CE04KW1C100M	ELECTRO	10UF	16WV		
C220, 221			CE04KW1A101M	ELECTRO	100UF	10WV		
C222, 223			CC73FCH1H100D	CHIP C	10PF	D	EQT	
C222, 223			CC73FCH1H150J	CHIP C	15PF	J	KP	
C222, 223			CC73FCH1H150J	CHIP C	15PF	J	MCXYIV	
C224, 225			CE04KW2A100M	ELECTRO	10UF	100WV		
C226			CK45FB2H392K	CERAMIC	3900PF	K		
C227			CE04KW2A100M	ELECTRO	10UF	100WV		
C228, 229			CE04KW1H470M	ELECTRO	47UF	50WV		
C230, 231			CK45FB2H392K	CERAMIC	3900PF	K		
C232			CE04KW2A100M	ELECTRO	10UF	100WV		
C233~235			CK73FB1H221K	CHIP C	220PF	K		
C236~238			CE04KW1C100M	ELECTRO	10UF	16WV		
C239~241			CE04KW1A101M	ELECTRO	100UF	10WV		
C242~244			CC73FCH1H100D	CHIP C	10PF	D	EQT	
C242~244			CC73FCH1H150J	CHIP C	15PF	J	KP	
C242~244			CC73FCH1H150J	CHIP C	15PF	J	MCXYIV	
C247, 248			CE04KW2A100M	ELECTRO	10UF	100WV		
C249, 250			CE04KW1H470M	ELECTRO	47UF	50WV		
C253~257			CK73FB1H102K	CHIP C	1000PF	K		
C268			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C269			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C270			CK73FB1H472K	CHIP C	4700PF	K	5	
C270~272			CK73FB1H472K	CHIP C	4700PF	K	KP	
C271			CK73FB1H472K	CHIP C	4700PF	K	Q5Y5M5	
C271			CK73FB1H472K	CHIP C	4700PF	K	X5I5	
C272			CK73FB1H472K	CHIP C	4700PF	K	5	
C273, 274			CK73FB1H472K	CHIP C	4700PF	K	67	
C275, 276			CK73FB1H472K	CHIP C	4700PF	K		
C277~279			CK45FB1H102K	CERAMIC	1000PF	K	EQT	
C280			CK45FB1H102K	CERAMIC	1000PF	K		
C281			CK45FF1H472Z	CERAMIC	4700PF	Z	E1E2E3	
C281			CK45FF1H472Z	CERAMIC	4700PF	Z	T5	
C282, 283			CC73FSL1H101J	CHIP C	100PF	J		
C284, 285			CC73FSL1H561J	CHIP C	560PF	J		
C300			CQ93FMG1H184J	MYLAR	0.18UF	J		
C302			C91-1480-05	MP	0.22UF	250WV	EQTMCX	
C302			C91-1480-05	MP	0.22UF	250WV	YIV	
C304, 305			C90-3832-05	ELECTRO	4700UF	75WV	KP	
C304, 305			C90-3832-05	ELECTRO	4700UF	75WV	MCXYIV	
C304, 305		*	C90-3833-05	ELECTRO	4700UF	63WV	EQT	
C306, 307		*	C90-3834-05	ELECTRO	3300UF	42WV	KP	
C306, 307			C90-3834-05	ELECTRO	3300UF	42WV	MCXYIV	
C306, 307		*	C90-3835-05	ELECTRO	3300UF	35WV	EQT	
C308			CE04KW1V222M	ELECTRO	2200UF	35WV		
C309			CE04KW1V471M	ELECTRO	470UF	35WV		
C310~313			CK73FF1C224Z	CHIP C	0.22UF	Z		
C314, 315			CE04KW1E101M	ELECTRO	100UF	25WV		
C316			CE04KW2A220M	ELECTRO	22UF	100WV		
C317			CE04KW1H470M	ELECTRO	47UF	50WV		

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KRF-V5020/V6020/V7020/VR-305/306/355
PARTS LIST

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C320			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C326			CE04KW1C470M	ELECTRO	47UF	16WV		
C327			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C330			CE04KW1C100M	ELECTRO	10UF	16WV		
C350			CE04KW1A101M	ELECTRO	100UF	10WV		
C351, 352			CE04KW1H100M	ELECTRO	10UF	50WV		
C359~363			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C400			CE04KW1C330M	ELECTRO	33UF	16WV		
C401~410			CK73EB1H104K	CHIP C	0.10UF	K		
C411, 412			CE04KW1C220M	ELECTRO	22UF	16WV		
C413			CK73EB1H104K	CHIP C	0.10UF	K		
C414			CK73FB1C104K	CHIP C	0.10UF	K		
C501~503			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C504			CK73FB1H103K	CHIP C	0.010UF	K		
C505			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C506			CK45FB1H102K	CERAMIC	1000PF	K		
C507			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C508, 509			CE04KW1A101M	ELECTRO	100UF	10WV		
C510			CC45FSL1H331J	CERAMIC	330PF	J	EQT	
C511			CK73FB1H103K	CHIP C	0.010UF	K		
C512, 513			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C514			CK73FB1H103K	CHIP C	0.010UF	K		
C515			CK45FB1H561K	CERAMIC	560PF	K	EQT	
C516			CE04KW1H2R2M	ELECTRO	2.2UF	50WV	EQT	
C517			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C518			CK73FB1H103K	CHIP C	0.010UF	K		
C519~521			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C522			CK45FF1H103Z	CERAMIC	0.010UF	Z	EQT	
C523			CE04KW1A101M	ELECTRO	100UF	10WV	EQT	
C524			CK45FF1H103Z	CERAMIC	0.010UF	Z	EQT	
C525			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C526			C90-3214-05	ELECTRO	100UF	6.3WV		
C527			CC73FCH1H470J	CHIP C	47PF	J	EQT	
C528			CC73FCH1H180J	CHIP C	18PF	J	EQT	
C529, 530			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C531			CK73FB1H103K	CHIP C	0.010UF	K		
C532			CK73FB1H102K	CHIP C	1000PF	K		
C533			CK73EB1H102K	CHIP C	1000PF	K	EQT	
C533			CK73EB1H102K	CHIP C	1000PF	K	KPV	
C534			C90-1827-05	ELECTRO	0.047F	5.5WV		
C535			CE04KW0J471M	ELECTRO	470UF	6.3WV	KP	
C536			CK45FB1H102K	CERAMIC	1000PF	K		
C537			CC45FSL1H101J	CERAMIC	100PF	J		
C538			CC73FSL1H101J	CHIP C	100PF	J		
C540			CC45FSL1H101J	CERAMIC	100PF	J	KP	
CN1			E40-4299-05	PIN ASSY				
CN2			E40-4248-05	PIN ASSY				
CN7			E40-8196-05	PIN ASSY				
CN8			E40-8260-05	FLAT CABLE CONNECTOR				
CN9			E40-8251-05	FLAT CABLE CONNECTOR				
CN10			E40-9848-05	PIN ASSY				
CN11			E40-3247-05	PIN ASSY			7	
CN12			E40-3249-05	PIN ASSY			7	
CN51			E40-8259-05	FLAT CABLE CONNECTOR				
CN53			E40-8250-05	FLAT CABLE CONNECTOR				

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
J1			E63-0046-15	PHONO JACK				EQTMCX	
J1			E63-0046-15	PHONO JACK				YI	
J1			E63-0172-05	PHONO JACK				KPV	
J2			E63-0047-15	PHONO JACK				EQTMCX	
J2			E63-0047-15	PHONO JACK				YI	
J2			E63-0173-05	PHONO JACK				KPV	
J3, 4			E63-1014-05	PHONO JACK				EQTMCX	
J3, 4			E63-1014-05	PHONO JACK				YI	
J3, 4			E63-1017-05	PHONO JACK				KPV	
J5			E63-1018-05	PHONO JACK				KPV	
J5			E63-1050-05	PHONO JACK				EQTMCX	
J5			E63-1050-05	PHONO JACK				YI	
J6			E63-1019-05	PHONO JACK				KPV	
J6			E63-1051-05	PHONO JACK				EQTMCX	
J6			E63-1051-05	PHONO JACK				YI	
J7			E63-0046-15	PHONO JACK				EQTMCX	
J7			E63-0046-15	PHONO JACK				YI	
J7			E63-0172-05	PHONO JACK				KPV	
J8			E70-0046-05	LOCK TERMINAL BOARD				5	
J8			E70-0082-05	LOCK TERMINAL BOARD				KP	
J9			E63-0114-05	PHONO JACK				EQT	
J10			E70-0047-05	LOCK TERMINAL BOARD				67	
J10			E70-0057-05	LOCK TERMINAL BOARD				5	
J10			E70-0094-05	LOCK TERMINAL BOARD				KP	
J11			E63-0116-05	PHONO JACK				MCXYI	
J11			E63-1016-05	PHONO JACK				KPV	
W401~405			E29-1634-14	LEAD PLATE					
L1~5			L39-1373-05	PHASE COMPENSATION COIL					
L501			L40-1091-17	SMALL FIXED INDUCTOR(1UH)				EQT	
L502			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				EQT	
X1			L78-0244-05	RESONATOR (4MHZ)					
X501			L78-0290-05	RESONATOR (8MHZ)					
X502			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)				EQT	
R1, 2			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R3, 4			RK73FB2A273J	CHIP R	27K	J	1/10W		
R5, 6			RK73FB2A101J	CHIP R	100	J	1/10W		
R13, 14			RK73FB2A473J	CHIP R	47K	J	1/10W		
R17, 18			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R19, 20			RK73FB2A224J	CHIP R	220K	J	1/10W		
R21~24			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R25, 26			RK73FB2A224J	CHIP R	220K	J	1/10W		
R27, 28			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R29, 30			RK73FB2A224J	CHIP R	220K	J	1/10W		
R31, 32			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R33, 34			RK73FB2A224J	CHIP R	220K	J	1/10W		
R35, 36			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R37, 38			RK73FB2A224J	CHIP R	220K	J	1/10W		
R39, 40			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R41, 42			RK73FB2A224J	CHIP R	220K	J	1/10W		
R43			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R44			RK73FB2A103J	CHIP R	10K	J	1/10W		
R45			RK73FB2A224J	CHIP R	220K	J	1/10W		
R46			RK73FB2A392J	CHIP R	3.9K	J	1/10W		

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R47, 48			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R49, 50			RK73FB2A224J	CHIP R	220K	J 1/10W		
R51~53			RK73FB2A750J	CHIP R	75	J 1/10W		
R56, 57			RK73FB2A332J	CHIP R	3.3K	J 1/10W		
R59, 60			RK73FB2A104J	CHIP R	100K	J 1/10W		
R67, 68			RK73FB2A104J	CHIP R	100K	J 1/10W		
R69, 70			RK73FB2A4R7J	CHIP R	4.7	J 1/10W		
R71, 72			RK73FB2A224J	CHIP R	220K	J 1/10W		
R93, 94			RS14KB3A391J	FL-PROOF RS	390	J 1W		
R96			RK73FB2A432J	CHIP R	4.3K	J 1/10W		
R97			RK73EB2B224J	CHIP R	220K	J 1/8W		
R98~102			RK73FB2A224J	CHIP R	220K	J 1/10W		
R109			RS14KB3A221J	FL-PROOF RS	220	J 1W		
R110			RS14KB3A271J	FL-PROOF RS	270	J 1W		
R111~113			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R116, 117			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R118			RK73FB2A473J	CHIP R	47K	J 1/10W		
R119			RK73FB2A223J	CHIP R	22K	J 1/10W		
R122			RK73FB2A103J	CHIP R	10K	J 1/10W		
R123			RK73FB2A203J	CHIP R	20K	J 1/10W		
R124			RK73FB2A105J	CHIP R	1.0M	J 1/10W		
R125			RK73FB2A224J	CHIP R	220K	J 1/10W		
R126			RK73FB2A104J	CHIP R	100K	J 1/10W		
R127			RK73FB2A475J	CHIP R	4.7M	J 1/10W		
R128			RK73FB2A752J	CHIP R	7.5K	J 1/10W		
R129			RK73FB2A153J	CHIP R	15K	J 1/10W		
R130			RK73FB2A473J	CHIP R	47K	J 1/10W		
R131			RK73FB2A752J	CHIP R	7.5K	J 1/10W		
R132			RK73FB2A153J	CHIP R	15K	J 1/10W		
R133			RK73FB2A473J	CHIP R	47K	J 1/10W		
R134			RD14NB2E221J	RD	220	J 1/4W		
R135			RS14KB3D680J	FL-PROOF RS	68	J 2W		
R136			RK73FB2A334J	CHIP R	330K	J 1/10W		
R137, 138			RK73FB2A243J	CHIP R	24K	J 1/10W		
R145, 146			RK73FB2A122J	CHIP R	1.2K	J 1/10W		
R147, 148			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R149, 150			RK73FB2A104J	CHIP R	100K	J 1/10W		
R157, 158			RK73FB2A222J	CHIP R	2.2K	J 1/10W		
R161, 162			RK73FB2A122J	CHIP R	1.2K	J 1/10W		
R163, 164			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R165, 166			RK73FB2A104J	CHIP R	100K	J 1/10W		
R173, 174			RK73FB2A222J	CHIP R	2.2K	J 1/10W		
R177, 178			RK73FB2A122J	CHIP R	1.2K	J 1/10W		
R179, 180			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R181, 182			RK73FB2A104J	CHIP R	100K	J 1/10W		
R183			RK73FB2A153J	CHIP R	15K	J 1/10W		
R184			RK73FB2A391J	CHIP R	390	J 1/10W		
R186			RK73FB2A183J	CHIP R	18K	J 1/10W		
R189, 190			RK73FB2A222J	CHIP R	2.2K	J 1/10W		
R191			RK73FB2A104J	CHIP R	100K	J 1/10W		
R192, 193			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R194			RK73FB2A223J	CHIP R	22K	J 1/10W		
R195			RK73FB2A104J	CHIP R	100K	J 1/10W		
R196, 197			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R198			RK73FB2A104J	CHIP R	100K	J 1/10W		

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R199, 200			RK73FB2A223J	CHIP R	22K	J 1/10W		
R201, 202			RK73FB2A104J	CHIP R	100K	J 1/10W		
R203, 204			RK73FB2A563J	CHIP R	56K	J 1/10W		
R207, 208			RK73EB2B331J	CHIP R	330	J 1/8W	K1P1	
R207, 208			RK73FB2A361J	CHIP R	360	J 1/10W	K2P2	
R207, 208			RK73FB2A361J	CHIP R	360	J 1/10W	K3P3	
R207, 208			RK73FB2A361J	CHIP R	360	J 1/10W	MCXYIV	
R207, 208			RK73FB2A431J	CHIP R	430	J 1/10W	E7E8	
R207, 208			RK73FB2A431J	CHIP R	430	J 1/10W	T7Q7	
R207, 208			RK73FB2A471J	CHIP R	470	J 1/10W	E1E2E3	
R207, 208			RK73FB2A471J	CHIP R	470	J 1/10W	E4E5	
R207, 208			RK73FB2A471J	CHIP R	470	J 1/10W	Q5Q6	
R209, 210			RK73FB2A563J	CHIP R	56K	J 1/10W		
R214, 215			RD14NB2E103J	RD	10K	J 1/4W		
R216			RS14KB3A392J	FL-PROOF RS	3.9K	J 1W		
R217~219			RK73FB2A104J	CHIP R	100K	J 1/10W		
R220			RS14KB3A392J	FL-PROOF RS	3.9K	J 1W		
R221, 222			RK73FB2A563J	CHIP R	56K	J 1/10W		
R224			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R225, 226			RK73FB2A331J	CHIP R	330	J 1/10W	K1P1	
R225, 226			RK73FB2A361J	CHIP R	360	J 1/10W	K2P2	
R225, 226			RK73FB2A361J	CHIP R	360	J 1/10W	K3P3	
R225, 226			RK73FB2A361J	CHIP R	360	J 1/10W	MCXYIV	
R225, 226			RK73FB2A431J	CHIP R	430	J 1/10W	E7E8	
R225, 226			RK73FB2A431J	CHIP R	430	J 1/10W	T7Q7	
R225, 226			RK73FB2A471J	CHIP R	470	J 1/10W	E1E2E3	
R225, 226			RK73FB2A471J	CHIP R	470	J 1/10W	E4E5	
R225, 226			RK73FB2A471J	CHIP R	470	J 1/10W	Q5Q6	
R229, 230			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R231			RK73FB2A563J	CHIP R	56K	J 1/10W		
R233			RK73FB2A331J	CHIP R	330	J 1/10W	K1P1	
R233			RK73FB2A361J	CHIP R	360	J 1/10W	K2P2	
R233			RK73FB2A361J	CHIP R	360	J 1/10W	K3P3	
R233			RK73FB2A361J	CHIP R	360	J 1/10W	MCXYIV	
R233			RK73FB2A431J	CHIP R	430	J 1/10W	E7E8	
R233			RK73FB2A431J	CHIP R	430	J 1/10W	T7Q7	
R233			RK73FB2A471J	CHIP R	470	J 1/10W	E1E2E3	
R233			RK73FB2A471J	CHIP R	470	J 1/10W	E4E5	
R233			RK73FB2A471J	CHIP R	470	J 1/10W	Q5Q6	
R239, 240			RS14KB3A392J	FL-PROOF RS	3.9K	J 1W		
R241, 242			R92-1866-05	METAL FILM	0.1	2W		
R243, 244			RK73FB2A333J	CHIP R	33K	J 1/10W		
R245, 246			RK73FB2A333J	CHIP R	33K	J 1/10W	K1P1	
R245, 246			RK73FB2A333J	CHIP R	33K	J 1/10W	7	
R245, 246			RK73FB2A363J	CHIP R	36K	J 1/10W	K2P2K3	
R245, 246			RK73FB2A363J	CHIP R	36K	J 1/10W	P3	
R245, 246			RK73FB2A363J	CHIP R	36K	J 1/10W	56	
R247, 248			RK73FB2A471J	CHIP R	470	J 1/10W		
R249			R92-1866-05	METAL FILM	0.1	2W		
R251			RK73FB2A333J	CHIP R	33K	J 1/10W		
R253			RK73FB2A333J	CHIP R	33K	J 1/10W	K1P1	
R253			RK73FB2A333J	CHIP R	33K	J 1/10W	7	
R253			RK73FB2A363J	CHIP R	36K	J 1/10W	K2P2K3	
R253			RK73FB2A363J	CHIP R	36K	J 1/10W	P3	
R253			RK73FB2A363J	CHIP R	36K	J 1/10W	56	

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KRF-V5020/V6020/V7020/VR-305/306/355
PARTS LIST

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19

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R255			RK73FB2A471J	CHIP R	470	J 1/10W		
R257, 258			R92-1866-05	METAL FILM	0.1	2W		
R259, 260			RK73FB2A333J	CHIP R	33K	J 1/10W		
R261, 262			RK73FB2A333J	CHIP R	33K	J 1/10W	K1P1	
R261, 262			RK73FB2A333J	CHIP R	33K	J 1/10W	7	
R261, 262			RK73FB2A363J	CHIP R	36K	J 1/10W	K2P2K3	
R261, 262			RK73FB2A363J	CHIP R	36K	J 1/10W	P3	
R261, 262			RK73FB2A363J	CHIP R	36K	J 1/10W	56	
R263, 264			RK73FB2A471J	CHIP R	470	J 1/10W		
R265~267			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W		
R268			RK73FB2A153J	CHIP R	15K	J 1/10W		
R269, 270			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W		
R271~273			RK73FB2A333J	CHIP R	33K	J 1/10W		
R275, 276			RK73FB2A333J	CHIP R	33K	J 1/10W		
R277			RK73FB2A163J	CHIP R	16K	J 1/10W	EQT	
R277			RK73FB2A183J	CHIP R	18K	J 1/10W	7	
R279, 280			RK73FB2A163J	CHIP R	16K	J 1/10W	EQT	
R279, 280			RK73FB2A183J	CHIP R	18K	J 1/10W	7	
R281~283			RK73FB2A102J	CHIP R	1.0K	J 1/10W	EQT	
R284			RK73FB2A123J	CHIP R	12K	J 1/10W		
R285			RK73FB2A682J	CHIP R	6.8K	J 1/10W		
R286			RK73FB2A223J	CHIP R	22K	J 1/10W		
R287~291			RK73FB2A272J	CHIP R	2.7K	J 1/10W		
R292~295			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R300			RD14NB2E1R0J	RD	1	J 1/4W		
R304, 305			RK73FB2A513J	CHIP R	51K	J 1/10W		
R306, 307			RK73FB2A273J	CHIP R	27K	J 1/10W		
⚠ R308			RD14NB2E4R7J	RD	4.7	J 1/4W		
R309			RD14NB2E103J	RD	10K	J 1/4W		
R311			RK73FB2A513J	CHIP R	51K	J 1/10W		
R312			RK73FB2A273J	CHIP R	27K	J 1/10W		
R315, 316			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R317			RK73FB2A273J	CHIP R	27K	J 1/10W		
R318			RS14KB3A681J	FL-PROOF RS	680	J 1W		
R320			RK73FB2A103J	CHIP R	10K	J 1/10W		
R321			RK73FB2A473J	CHIP R	47K	J 1/10W		
⚠ R322			RS14KB3D391J	FL-PROOF RS	390	J 2W		
⚠ R323			R92-1878-05	WIRE WOUND	68	K 5W		
⚠ R325			RS14KB3D391J	FL-PROOF RS	390	J 2W		
R326~330			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R331			RK73FB2A363J	CHIP R	36K	J 1/10W		
R332			RK73FB2A751J	CHIP R	750	J 1/10W		
R333			RK73FB2A272J	CHIP R	2.7K	J 1/10W		
R361, 362			RS14KB3D391J	FL-PROOF RS	390	J 2W		
R363			RK73FB2A473J	CHIP R	47K	J 1/10W		
R400			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R403~407			RK73EB2B220J	CHIP R	22	J 1/8W		
R408			RK73FB2A222J	CHIP R	2.2K	J 1/10W		
R409			RK73FB2A333J	CHIP R	33K	J 1/10W		
R410, 411			RK73EB2B224J	CHIP R	220K	J 1/8W		
R412, 413			RK73FB2A224J	CHIP R	220K	J 1/10W		
R414			RK73FB2A103J	CHIP R	10K	J 1/10W		
R416			RK73FB2A683J	CHIP R	68K	J 1/10W		
R417			RK73FB2A473J	CHIP R	47K	J 1/10W		

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20

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R450, 451			RK73FB2A272J	CHIP R	2.7K	J 1/10W		
R452			RK73FB2A361J	CHIP R	360	J 1/10W		
R453			RK73FB2A472J	CHIP R	4.7K	J 1/10W		
R454			RK73FB2A822J	CHIP R	8.2K	J 1/10W	MCXYIV	
R456			RK73FB2A473J	CHIP R	47K	J 1/10W		
R457			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R458			RK73FB2A101J	CHIP R	100	J 1/10W		
R460, 461			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R462			RK73EB2B101J	CHIP R	100	J 1/8W		
R504			RK73FB2A103J	CHIP R	10K	J 1/10W		
R514			RK73FB2A222J	CHIP R	2.2K	J 1/10W		
R515			RK73FB2A103J	CHIP R	10K	J 1/10W		
R523			RD14NB2E1R0J	RD	1	J 1/4W		
R524, 525			RK73FB2A101J	CHIP R	100	J 1/10W		
R528			RK73FB2A101J	CHIP R	100	J 1/10W		
R529, 530			RK73FB2A473J	CHIP R	47K	J 1/10W		
R536			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R545, 546			RK73FB2A103J	CHIP R	10K	J 1/10W		
R552			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R556			RK73FB2A103J	CHIP R	10K	J 1/10W	KP	
R556			RK73FB2A103J	CHIP R	10K	J 1/10W	MCXYIV	
R565			RK73FB2A103J	CHIP R	10K	J 1/10W		
R568			RK73FB2A103J	CHIP R	10K	J 1/10W		
R570			RK73FB2A103J	CHIP R	10K	J 1/10W		
R577			RK73FB2A103J	CHIP R	10K	J 1/10W		
R580			RK73FB2A222J	CHIP R	2.2K	J 1/10W	EQT	
R582			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
R601, 602			RK73FB2A224J	CHIP R	220K	J 1/10W		
R603			RK73FB2A473J	CHIP R	47K	J 1/10W		
R606			RK73FB2A102J	CHIP R	1.0K	J 1/10W		
⚠ R607, 608			RD14NB2E1R0J	RD	1	J 1/4W		
W303			R92-0679-05	CHIP R	0 OHM			
W304~306			R92-0670-05	CHIP R	0 OHM			
W309, 310			R92-0679-05	CHIP R	0 OHM			
W312			R92-0679-05	CHIP R	0 OHM			
W314			R92-0679-05	CHIP R	0 OHM			
W315			R92-0670-05	CHIP R	0 OHM			
W316~318			R92-0679-05	CHIP R	0 OHM			
W501~502			R92-0670-05	CHIP R	0 OHM		MCXYI	
W501~506			R92-0670-05	CHIP R	0 OHM		KPV	
W503~506			R92-0670-05	CHIP R	0 OHM		EQT	
K1		*	S76-0045-15	MAGNETIC RELAY				
K2		*	S76-0045-15	MAGNETIC RELAY			67	
K3, 4		*	S76-0045-15	MAGNETIC RELAY				
S501~505			S70-0031-05	TACT SWITCH				
S507			S70-0031-05	TACT SWITCH				
S509~512			S70-0031-05	TACT SWITCH				
S514~516			S70-0031-05	TACT SWITCH				
S520, 521			S70-0031-05	TACT SWITCH				
S517			T99-0602-05	ROTARY ENCODER				
S518, 519			T99-0605-05	ROTARY ENCODER				
D3, 4			HZS5.1N(B2)	ZENER DIODE				
D3, 4			MTZJ5.1(B)	ZENER DIODE				

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D3, 4			*RD5.1ES(B2)*	*ZENER DIODE*		
D5, 6			HZS6.8N(B2)	ZENER DIODE		
D5, 6			MTZJ6.8(B)	ZENER DIODE		
D5, 6			RD6.8ES(B2)	ZENER DIODE		
D7			HZS5.1N(B2)	ZENER DIODE		
D7			MTZJ5.1(B)	ZENER DIODE		
D7			RD5.1ES(B2)	ZENER DIODE		
D8			HZS11N(B2)	ZENER DIODE		
D8			MTZJ11(B)	ZENER DIODE		
D8			RD11ES(B2)	ZENER DIODE		
D10			HZS8.2N(B2)	ZENER DIODE		
D10			MTZJ8.2(B)	ZENER DIODE		
D10			RD8.2ES(B2)	ZENER DIODE		
D11			HZS7.5N(B2)	ZENER DIODE		
D11			MTZJ7.5(B)	ZENER DIODE		
D11			RD7.5ES(B2)	ZENER DIODE		
D12, 13			HZS8.2N(B2)	ZENER DIODE		
D12, 13			MTZJ8.2(B)	ZENER DIODE		
D12, 13			RD8.2ES(B2)	ZENER DIODE		
D14, 15			HZS10N(B2)	ZENER DIODE		
D14, 15			MTZJ10(B)	ZENER DIODE		
D14, 15			RD10ES(B2)	ZENER DIODE		
D19			MA111	DIODE		
D20			MA111	DIODE	67	
D21~23			MA111	DIODE		
D24			HZS4.7N(B2)	ZENER DIODE		
D24			MTZJ4.7(B)	ZENER DIODE		
D24			RD4.7ES(B2)	ZENER DIODE		
D25			HZS3.3N(B2)	ZENER DIODE		
D25			MTZJ3.3(B)	ZENER DIODE		
D25			RD3.3ES(B2)	ZENER DIODE		
D26			MA111	DIODE		
⚠ D31			D4SBL20UF03	DIODE		
⚠ D32			D4SBL20UF03	DIODE	ETQ	
⚠ D32			D4SBL20UF03	DIODE	YMXICV	
D37, 38			HZS16N(B2)	ZENER DIODE		
D37, 38			MTZJ16(B)	ZENER DIODE		
D37, 38			RD16ES(B2)	ZENER DIODE		
D39, 40			HZS18N(B2)	ZENER DIODE		
D39, 40			MTZJ18(B)	ZENER DIODE		
D39, 40			RD18ES(B2)	ZENER DIODE		
D50, 51			MA111	DIODE		
D52			MA111	DIODE	MCXYIV	
D53~55			MA111	DIODE		
D56			HZS7.5N(B2)	ZENER DIODE		
D56			MTZJ7.5(B)	ZENER DIODE		
D56			RD7.5ES(B2)	ZENER DIODE		
D59			MA111	DIODE	YMXICV	
D504			HSS104A	DIODE	QMCXYI	
D504			HSS104A	DIODE	V	
D504			1SS133	DIODE	QMCXYI	
D504			1SS133	DIODE	V	
D505			HSS104A	DIODE	ET	
D505			1SS133	DIODE	ET	
D507			HSS104A	DIODE	Q	

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D507			1SS133	DIODE	Q	
D508, 509			HSS104A	DIODE		
D508, 509			1SS133	DIODE		
D510			HSS104A	DIODE	ETQ	
D510			HSS104A	DIODE	YMXCIV	
D510			1SS133	DIODE	ETQ	
D510			1SS133	DIODE	YMXCIV	
D511~521			HSS104A	DIODE		
D511~521			1SS133	DIODE		
D522			1SS133	DIODE	5	
D523			HSS104A	DIODE		
D523			1SS133	DIODE		
D524			HSS104A	DIODE	EQT	
D524			1SS133	DIODE	EQT	
D526			HZS6.2N(B2)	ZENER DIODE		
D526			MTZJ6.2(B)	ZENER DIODE		
D526			RD6.2ES(B2)	ZENER DIODE		
D529			HSS104A	DIODE		
D529			1SS133	DIODE		
⚠ D530			S1ZB20(4072)	DIODE		
⚠ D531			D4SBL20UF03	DIODE	KP	
D532, 533			MA111	DIODE		
ED51			11-MT-120GK	INDICATOR TUBE		
⚠ IC1			TA7815SB	ANALOGUE IC		
⚠ IC2			TA79015SB	ANALOGUE IC		
⚠ IC3		*	STK411-220D	HYBRID IC	K2P2K2	
⚠ IC3		*	STK411-220D	HYBRID IC	P3	
⚠ IC3		*	STK411-220D	HYBRID IC	56	
⚠ IC3			STK411-230D	HYBRID IC	K1P1	
⚠ IC3			STK411-230D	HYBRID IC	7	
⚠ IC3			STK411-230K	HYBRID IC	K1P1	
⚠ IC4		*	STK410-020D	HYBRID IC	K2P2K3	
⚠ IC4		*	STK410-020D	HYBRID IC	P3	
⚠ IC4		*	STK410-020D	HYBRID IC	56	
⚠ IC4			STK410-030D	HYBRID IC	K1P1	
⚠ IC4			STK410-030D	HYBRID IC	7	
IC5			NJM4580ED	ANALOGUE IC		
IC6			TC9164AF	MOS-IC		
IC7			TC9162AF	MOS-IC		
IC8			NJM4565MD	IC(OP AMP X2)		
IC9			M62446FP	ANALOGUE IC		
IC12			NJM4565MD	IC(OP AMP X2)		
IC16		*	M62460FP	ANALOGUE IC		
IC17			BU4066BCF	ANALOGUE IC		
IC18			NJM2279M	ANALOGUE IC		
IC19			M5278L05M	ANALOGUE IC		
IC51			CXP82832-155Q	MI-COM IC	KP	
IC51			CXP82832-155Q	MI-COM IC	MCXYIV	
IC51			CXP82852-136Q	MI-COM IC	EQT	
IC52			X24C02S	MEMORY IC	EQT	
IC52			X24C02S	MEMORY IC	YMXCIV	
IC53			S-80740AL-A4	IC(VOLTAGE DETECTOR)		
IC54			SAA6579T	ANALOGUE IC	EQT	
IC54			SAA6579T/R	ANALOGUE IC	EQT	
IC55			NJM4565MD	IC(OP AMP X2)		

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KRF-V5020/V6020/V7020/VR-305/306/355
PARTS LIST

HOW TO READ THE PARTS LIST

Destination column has the abbreviation for the sale country and model. Alphabets mean the country. Numerals do model.

Example: X5 show KRF-V5020 for Australia market. "X" does all models for Australia. "5" does KRF-V5020, KRF-5020(S), KRF-V5020E and KRF-V5020W.

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	CNT	Australia	Canada	China	England	Europe	Germany	Korea	Malaysia
	ABB.	X	P	C	T	E	G	H	I
KRF-V5020	5	X5	-	-	T5	E1	-	-	I5
KRF-V5020(S)	5	-	-	-	-	E2	-	-	-
KRF-V5020E	5	-	-	-	-	E3	-	-	-
KRF-V5020W	5	-	-	-	-	-	-	-	-
KRF-V6020	6	X6	-	C6	-	E4	-	-	I6
KRF-V6020E	6	-	-	-	-	E5	-	-	-
KRF-V6020W	6	-	-	-	-	-	-	-	-
KRF-V7020	7	-	-	-	T7	E7	-	-	-
KRF-V7020E	7	-	-		-	E8	-	-	-
KRF-V7020W	7	-	-	-	-	-	-	-	-
VR-305	4	-	P2	-	-	-	-	-	-
VR-306	4	-	P1	-	-	-	-	-	-
VR-355	4	-	P3	-	-	-	-	-	-

MODEL	CNT	Mexico	PX/AAFES	Russia	Scandinavia	Shanghai	USA	Other area	
	ABB.	R	Y	Q	L	V	K	M	
KRF-V5020	5	-	Y5	-	-	-	-	M5	-
KRF-V5020(S)	5	-	-	-	-	-	-	-	-
KRF-V5020E	5	-	-	-	-	-	-	-	-
KRF-V5020W	5	-	-	Q5	-	-	-	-	-
KRF-V6020	6	-	-	-	-	V6	-	M6	-
KRF-V6020E	6	-	-	-	-	-	-	-	-
KRF-V6020W	6	-	-	Q6	-	-	-	-	-
KRF-V7020	7	-	-	-	-	-	-	-	-
KRF-V7020E	7	-	-	-	-	-	-	-	-
KRF-V7020W	7	-	-	Q7	-	-	-	-	-
VR-305	4	-	-	-	-	-	K2	-	-
VR-306	4	-	-	-	-	-	K1	-	-
VR-355	4	-	-	-	-	-	K3	-	-

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(23)

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
Q1~11			2SC2878(B)	TRANSISTOR		
Q12			2SC4213(B)	TRANSISTOR		
Q13, 14			2SA1576A(R,S)	TRANSISTOR		
Q13, 14			2SA1586(Y,GR)	TRANSISTOR		
Q13, 14			2SA1611(M5,M6)	TRANSISTOR		
Q13, 14			2SB1218A(Q,R)	TRANSISTOR		
Q15~19			2SC1845(F,E)	TRANSISTOR		
Q20			DTC123JUA	DIGITAL TRANSISTOR		
Q21			DTC123JUA	DIGITAL TRANSISTOR	67	
Q22, 23			DTC123JUA	DIGITAL TRANSISTOR		
Q24, 25			2SC3722K(R,S)	TRANSISTOR		
Q26			2SA1255	TRANSISTOR		
Q29			2SC3944A(R,S)	TRANSISTOR		
Q30			2SA1123(S,T)	TRANSISTOR		
Q30			2SA1285A(F)	TRANSISTOR		
⚠ Q31			2SB1640	TRANSISTOR		
Q32~34			2SC3722K(R,S)	TRANSISTOR		
Q35			2SA1255	TRANSISTOR		
Q36, 37			2SC3722K(R,S)	TRANSISTOR		
Q40			2SC4213(B)	TRANSISTOR		
Q41			DTC113ZUA	DIGITAL TRANSISTOR		
Q41			UN5219	DIGITAL TRANSISTOR		
Q42			2SC4213(B)	TRANSISTOR	MCXYIV	
Q501			2SC4081(R,S)	TRANSISTOR		
Q501			2SC4116(Y,GR)	TRANSISTOR		
Q501			2SC4177(L5,L6)	TRANSISTOR		
Q501			2SD1819A(Q,R)	TRANSISTOR		
Q503			2SC4081(R,S)	TRANSISTOR		
Q503			2SC4116(Y,GR)	TRANSISTOR		
Q503			2SC4177(L5,L6)	TRANSISTOR		
Q503			2SD1819A(Q,R)	TRANSISTOR		
TH1			PTH9C42BD471Q	POSITIVE RESISTOR	MCXYIV	
A501			W02-2625-05	OPTIC RECEIVING MODULE		

SUB (X25-6222-70)

C1			CE04KW1C100M	ELECTRO	10UF	16WV		
C2			CC73FCH1H470J	CHIP C	47PF	J		
C3, 4			CC73FSL1H221J	CHIP C	220PF	J		
CN1			E40-3247-05	PIN ASSY				
CN2			E40-3249-05	PIN ASSY				
J1		*	E63-1072-05	PHONO JACK				
R1			RK73FB2A750J	CHIP R	75	J	1/10W	
R2, 3			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
R4, 5			RK73FB2A224J	CHIP R	220K	J	1/10W	
W1			R92-0670-05	CHIP R	0 OHM			
S1		*	S68-0113-05	PUSH SWITCH				
D1			DA204U	DIODE				

L : Scandinavia **K** : USA **P** : Canada **R** : Mexico **C** : China **I** : Malaysia
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **G** : Germany **V** : China(Shanghai)
Y : AAFES(Europe) **X** : Australia **Q** : Russia **H** : Korea **M** : Other Areas

⚠ indicates safety critical components.

SPECIFICATIONS

For Europe and England

AUDIO section

Rated power output during STEREO operation
- KRF-V7020
- (DIN) 1 kHz, 0.7% at 4 Ω ..... 100 W + 100 W
- KRF-V6020, KRF-V5020
- (DIN) 1 kHz, 0.7% at 4 Ω ..... 80 W + 80 W

Effective power output during SURROUND operation
- KRF-V7020
- FRONT (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 100 W + 100 W
- CENTER (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 100 W
- SURROUND (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 100 W + 100 W
- KRF-V6020, KRF-V5020
- FRONT (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W + 80 W
- CENTER (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W
- SURROUND (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W + 80 W

Total harmonic distortion ..... 0.05% (1 kHz, 40W, 4 Ω)
Frequency response
- CD ..... 10 Hz ~ 60 kHz, +0 dB, –3.0 dB

Signal to noise ratio
- PHONO (MM) ..... 75 dB (IHF'66)
- CD ..... 93 dB (IHF'66)

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 27 kΩ
- CD ..... 200 mV / 47 kΩ
- DVD 6CH (SUBWOOFER) ..... 200 mV / 10 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 2.2 kΩ
- PRE OUT (CENTER, SURROUND) ..... 1 V / 2,2 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (DIN, 75 Ω)
- MONO ..... 1.2 µV / 13.2 dBf (40 kHz DEV., S/N 26 dB)
- STEREO ..... 45 µV / 44.2 dBf (46 kHz DEV., S/N 46 dB)

Total harmonic distortion (DIN, 1 kHz)
- MONO ..... 0.2% (65.2 dBf input)
- STEREO ..... 0.8% (65.2 dBf input)

Signal to noise ratio (DIN weighted, 1 kHz)
- MONO ..... 65 dB (40 kHz DEV., 65.2 dBf input)
- STEREO ..... 60 dB (46 kHz DEV., 65.2 dBf input)

Stereo separation (DIN, 1 kHz) ..... 36 dB
Selectivity (DIN, ±300 kHz) ..... 64 dB
Frequency response (30 Hz ~ 15kHz) ..... +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity (30% mod., S/N 20 dB) ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod., 1 mV input) ..... 50 dB

GENERAL

Power consumption ..... 230 W
AC outlet
- SWITCHED ..... 2 (total 150 W max.)

Dimensions ..... W : 440 mm, H : 144 mm
- KRF-V7020 ..... D : 400 mm
- KRF-V6020, KRF-V5020 ..... D : 390 mm

Weight (Net)
- KRF-V7020 ..... 9.2 kg
- KRF-V6020 ..... 8.4 kg
- KRF-V5020 ..... 8.2 kg

For other countries

AUDIO section

Effective power output during STEREO operation
- KRF-V6020
- 1kHz,10% T.H.D.,at 8 Ω ..... 120 W + 120 W
- KRF-V5020
- 1kHz,10% T.H.D.,at 8 Ω ..... 110 W + 110 W

Rated power output during STEREO operation

80 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation
- FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W
- CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 80 W
- SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W

Total harmonic distortion ..... 0.05%(1 kHz, 40W, 8 Ω)
Frequency response
- CD ..... 10 Hz ~ 60 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)
- PHONO (MM) ..... 75 dB
- CD ..... 93 dB

Input sensitivity / impedance
- PHONO (MM) ..... 2.5 mV / 27 kΩ
- CD ..... 200 mV / 47 kΩ
- DVD 6CH (SUBWOOFER) ..... 200 mV / 10 kΩ

Output level / impedance
- TAPE REC ..... 200 mV / 2.2 kΩ
- PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control
- BASS ..... ±10 dB (at 100 Hz)
- TREBLE ..... ±10 dB (at 10 kHz)

VIDEO section

VIDEO inputs / outputs
- VIDEO (composite) ..... 1 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz
Usable sensitivity (MONO) ..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)
50dB quieting sensitivity
- STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)
- MONO ..... 0.6% (65 dBf input)
- STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)
- MONO ..... 75 dB (65 dBf input)
- STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB
Selectivity (±400 kHz) ..... 50 dB
Frequency response ..... 30 Hz ~ 15kHz, +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range
- For Australia
- 9 kHz step ..... 531 kHz ~ 1,602 kHz
- Except for Australia
- 9 kHz step ..... 531 kHz ~ 1,602 kHz
- 10 kHz step ..... 530 kHz ~ 1,610 kHz

Usable sensitivity (30% mod., S/N 20 dB) ..... 16 µV / (600 µV/m)
Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption
- KRF-V6020 ..... 280 W
- KRF-V5020 ..... 230 W

AC outlet
- SWITCHED (for Australia) ..... 1 (total 150 W max.)
- SWITCHED (except Australia) ..... 2 (total 150 W max.)

Dimensions ..... W : 440 mm, H : 144 mm, D : 400 mm

Weight (Net)
- KRF-V6020 ..... 9.4 kg
- KRF-V5020 ..... 8.2 kg

Notes
1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KRF-V5020/V6020/V7020/VR-305/306/355

SPECIFICATIONS

For U.S.A and Canada

AUDIO section

Rated power output during STEREO operation

VR-306

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

VR-305, VR-355

80 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation

VR-306

FRONT (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W

CENTER (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W

SURROUND (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W

VR-305, VR-355

FRONT (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W

CENTER (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W

SURROUND (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W

Total harmonic distortion ..... 0.05% (1 kHz, 40W, 8 Ω)

Frequency response

CD ..... 10 Hz ~ 60 kHz, +0 dB, –3.0 dB

Signal to noise ratio (IHF'66)

PHONO (MM) ..... 75 dB

CD ..... 93 dB

Input sensitivity / impedance

PHONO (MM) ..... 2.5 mV / 27 kΩ

CD ..... 200 mV / 47 kΩ

DVD 6CH (SUBWOOFER) ..... 200 mV / 10 kΩ

Output level / impedance

TAPE REC ..... 200 mV / 2.2 kΩ

PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ

Tone control

BASS ..... ±10 dB (at 100 Hz)

TREBLE ..... ±10 dB (at 10 kHz)

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) ..... 1 Vp-p / 75 Ω

FM tuner section

Tuning frequency range ..... 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO) ..... 1.6 µV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)

50dB quieting sensitivity

STEREO ..... 31.6 µV (75 Ω)/ 41.2 dBf

Total harmonic distortion (1 kHz)

MONO ..... 0.6% (65 dBf input)

STEREO ..... 0.7% (65 dBf input)

Signal to noise ratio (1 kHz, 75 kHz DEV.)

MONO ..... 75 dB (65 dBf input)

STEREO ..... 68 dB (65 dBf input)

Stereo separation (1 kHz) ..... 38 dB

Selectivity (±400 kHz) ..... 65 dB

Frequency response ..... 30 Hz ~ 15kHz, +0.5 dB, –3.0 dB

AM tuner section

Tuning frequency range

10 kHz step ..... 530 kHz ~ 1,700 kHz

Usable sensitivity (30% mod., S/N 20 dB) ..... 16 µV / (600 µV/m)

Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB

GENERAL

Power consumption

VR-306 ..... 2.6 A

VR-305, VR-355 ..... 2.2 A

AC outlet

SWITCHED ..... 2 (total 150 W, 1.25 A max.)

Dimensions ..... W : 440 mm (17-5/16")

H : 144 mm (5-11/16")

D : 390 mm (15-3/8")

Weight (Net)

VR-306 ..... 8.8 kg (19.4 lb)

VR-305, VR-355 ..... 8.2 kg (18.1 lb)

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on General market(M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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